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SENDER'S DIRECT DIAL (303) 256-3986

SENDER'S INTERNET ADDRESS jsteeler@irwl.com

August 10, 2001

HAND DELIVER

Ms. Dawn Tesorero Technical Enforcement Program U.S. Environmental Protection Agency 999 18th Street, Suite 300 Denver, CO 80202-2466

Re:

First Request for Information Pursuant to § 104 of CERCLA for the Vasquez

Boulevard/I-70 Site, Denver, Colorado

Dear Ms. Tesorero:

On behalf of Pepsi Bottling Group, the attached information is intended to supplement my client's preliminary response dated April 6, 2001; the response dated May 4, 2001; the supplemental response dated May 16, 2001; and the supplemental response dated June 21, 2001. Specifically, attached hereto as Attachment 1 is Exhibit 6.d-6 to the Response dated May 4, 2001. This Exhibit is responsive to Question 6 of the above-referenced information request. This Exhibit provides information relating to the construction in 1986 of a portion of my client's facilities known as the Sports Center. As we have discussed, a portion of this facility was recently demolished. Specifically, I have enclosed:

- Compaction Test Reports for: . 11.
 - Athletic Center/Sports Facility a.
 - b. Box Culvert Backfill
 - Utility Trench Backfill
 - 2. Structural Drawings for Sports Center
 - 3. Plumbing Drawings for Sports Center

MILLE AUG 13 2001 បីព្រំខេត្ត នោះ ···--Compliance & Envirinstico.

ISAACSON, ROSENBAUM, WOODS & LEVY, P.C.

Ms. Dawn Tesorero Technical Enforcement Program U.S. Environmental Protection Agency August 10, 2001 Page 2

The foregoing material was specifically discussed with Marc Herman at a meeting at my client's facility on July 23, 2001.

Please be advised that the soil stockpile located on the property which was sampled earlier this summer and the results of which sampling were forwarded to you on June 21, 2001, is being removed the week of August 13, 2001.

Also be advised that my client plans to start the demolition and removal of the existing concrete slab and excavation of the excess dirt fill inside the Pepsi warehouse during the week of August 20, 2001. This work is taking place within the portions of the warehouse that were built in 1966 and 1971. It is the recollection of my client's project staff that there is approximately four feet of imported structural fill under the warehouse floor in this area. My client does not anticipate any excavation deeper than four feet for this phase of the project.

This letter is being submitted as a supplement to the previous responses. If you have any questions regarding the enclosure, the soils removal project, or need further information (including further certification), please advise the undersigned.

Very truly yours,

Jonathan H. Steeler

JHS:jkw Enclosure

cc: David H. Patrick, Esq.



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE., DENVER, CO 80204 (303) 825-0777

CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

DATE:	12-30-85	JOB. NO.	12532	
SI IR IECT				

PEPSI-COLA SPORTS FACILITY ADDITION 3801 BRIGHTON BLVD. EXCAVATION INSPECTION

				LABOR	ABORATORY FIELD				
TEST NO.	LOCATION	DEPTH FEET	TH TEST ET TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	·								

SPECIFICATIONS: % OF MAXIMUM % OF OPTIMUM MOISTURE WITHIN % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO, OF UNITS:	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE, WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR
A STATE OF THE PARTY OF THE PAR	OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED.
The state of the s	TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS
MOISTURE ADDED BY	SPECIFICATIONS.
HICKNESS OF LIFTINCHES	
YPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:	

PROGRESS REPORT AS REQUESTED BY DARREL WITH REID BURTON, OUR FIELD REPRESENTATIVE OBSERVED SOILS EXPOSED IN THE SOUTH WEST CORNER OF THE BASEMENT EXCAVATION FOR THE SPORTS FACILITY. SOILS EXPOSED IN THE TEST PIT CONSISTED OF A SAND-GRAVEL WITH WOOD AND BRICK DEBRIS TO A DEPTH OF 4 TO 5 FEET. NATURAL SAND AND GRAVELS WERE EXPOSED IN THE BOTTOM OF THE TEST PIT. DARREL WAS ADVISED TO REMOVE THE DEBRIS MATERIAL AND REPLACE WITH A COMPACTED STRUCTURAL FILL. DARREL REQUESTED WE RETURN WHEN THE TRASH FILL IS REMOVED. OUR FIELD REPRESENTATIVE OBSERVED SOILS EXPOSED IN THE EAST FOOTING EXCAVATION OF THE BASEMENT. SOILS EXPOSED CONSISTED OF A NATURAL SAND & GRAVEL. IN OUR OPINION FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(S)

IN OUR OPINION FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(S)

AND SHOULD BE REWORKED

SCOPE OF OBSERVATION: XI FULL TIME; X; FERIODIC, ON CALL BASIS; () CONTRACTOR'S OR CLIENTS REPRESENTATIVE ADVISED DARREL /REID BURTON

	MAD	FISCHER
125	MAR	אישות וכיניים

CTL/THOMPSON, INC.

FIELD REPRESENTATIVE

VB O MOSFINA

RONALD M. MC OMBER, P.E.

CTL/THOMPSON, INC.
CONSULTING GEOTECHNICAL
AND MATERIALS ENGINEERS

1971 WEST 12TH AVE., DENVER, CO 80204
(303) 825-0777

CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

DATE: 12-31-85	JOB. NO		12532	
REPORT NO.	2	SHEET _1	OF	1
SUBJECT				

PEPSI-COLA SPORTS FACILITY ADDITION 3801 BRIGHTON BOULEVARD EXCAVATION INSPECTION

	LABORATORY FIELD								
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
PECIFICATIONS:									
*	OPINION, FILL COMPACTION MEETS SPECIFICATIONS		- 4 av va**=						
AND SH	IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(5)								
COPE OF	observation: 📋 full time; 💢] periodic, on c.	ALL BASIS;	₹ CON	TRACTOR'S	OR CLIENT'S	S REPRESENT	ATIVE ADVI	SED	

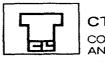
CTL/THOMPSON, INC.

RONALD M. MC OMBER, P.E.

APPROVED BY

ELD REPRESENTATIVE

DELMAR FISCHER



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE., DENVER, CO 80204 (303) 825-0777

CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

DATE:	1-2-86	JOB. NO	1253	2	
REPORT	NO	3	SHEET1	OF	1
SUBJEC:	T				

PEPSI-COLA SPORTS FACILITY ADDITION 3801 BRIGHTON BOULEVARD STRUCTURAL FILL PLACEMENT

THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION

			r	LABOR	ATORY	I .	FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	FROM THE SOUTH WEST CORNER OF THE BASEMENT:								
1	5'N & 30'E	5.0	NUC	130	7.5	124	8.6	95	CURVE #1 JOB #11870
2	5'N & 35'E	4.0	NUC	130	7.5	125	7.6	96	
3	8'N & 20'E	2.7	NUC	128.5	9.5	130	7.6	** 100+	CURVE #1 JOB #12167
4	5'N & 45'E	1.5	NUC	128.5	9.5	128	8.1	** 100	11
5	8'N & 35'E	0.5	NUC	128.5	9.5	128	7.0	** 100	
						ŕ			
**	BELOW FLOOR SUBGRADE SPECIFICATIONS 98% OF MAXI	MUM A	STM D	698					

MOISTURE WITHIN + 2 TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (1) 'REX' SHEEPSFOOT ROLLER	UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND
MOISTURE ADDED BY (1) GARDEN HOSE THICKNESS OF LIFT 12 TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: (1) FRONT LOADER	SPECIFICATIONS.
BACKFILL IN THE EXCAVATION CAUSED WEST CORNER OF THE BASEMENT.	CONTRACTOR BEGAN AND COMPLETED THE STRUCTURAL BY THE REMOVAL OF DEBRIS FILL IN THE SOUTH
☑ IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS	NDICATED BY OUR OBSERVATIONS AND TEST NO.[S] # 1-5
	IONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(S)
COPE OF OBSERVATION: [] FULL TIME; [X PERIODIC, ON CALL	ASIS; 💢 CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED DARREL/REIDBURTON

CTL/THOMPSON, INC.

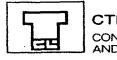
DELMAR FISCHER IELD REPRESENTATIVE

95

SPECIFICATIONS:

% OF MAXIMUM ASTM D 1557

RONALD M. MC OMBER, P.E.



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE., DENVER, CO 80204 (303) 825-0777

CLIENT:			
PEPSI C	OLA CO	OMPAN'	Y
3801 BR	I GHTO	N BOU	_EVARD
DENVER,	COLÓF	CCAS	80216

DATE:	01-14-86 _{JOB NO.} 12532
REPORTIN	10. 4 SHEET 1 OF 1
	PEPSI COLA SPORTS FACILITY ADDITION
	3801 BRIGHTON BOULEVARD
	RACKETBALL COURT AREA
	EXCAVATION INSPECTION

				LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
			·						
						*			

THE RESERVE OF THE PROPERTY OF
OPTIMALIAM OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE, WE HAVE RELIED
UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR
OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED
TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS
SPECIFICATIONS.
INCHES

AS REQUESTED BY RON CARPENTER WITH REID BURTON CONSTRUCTION A SITE VISIT WAS MADE TO OBSERVE THE SUBGRADE IN THE EXCAVATION FOR THE RACKET BALL COURT. OUR IELD REPRESENTATIVE OBSERVED THE SUBGRADE MATERIALS IN THE BOTTOM OF THE EXCAVATION WAS NATURAL SANDS AND GRAVELS. WE INFORMED MR. CARPENTER PLACEMENT OF THE SQUEEGEE COULD BEGIN.

IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(S)

IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(5)

AND SHOULD BE REWORKED

OPE OF OBSERVATION: FULL TIME; X PERIODIC, ON CALL BASIS; X CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED ON CARPENTER (REID

BURTON CONST.)

CTL THOMPSON, INC.

KIRK STEADMAN S:RS



CLIENT:
PEPSI COLA COMPANY
3801 BRIGHTON BOULEVARD
DENVER, COLORADO 80216

DATE:	01-23-86 _{JOB.N}	12532	
חבות חדות	0	5 guert 1 or	1
SUBJECT	PEPSI COLA SPO	ORTS FACILITY	ADDITION
	3801 BRIGHTON		
	EXCAVATION INS	SPECTION	

MOISTURE WITHIN	1 1				LABOR	ATORY		FIELD		
MOISTURE WITHIN		LOCATION			DENSITY		DENSITY			SOIL TYPE
MOISTURE WITHIN										
MOISTURE WITHIN										
MOISTURE WITHIN						_				
MOISTURE WITHIN										
MOISTURE WITHIN										
MOISTURE WITHIN										
MOISTURE WITHIN										
MOISTURE WITHIN										
HICKNESS OF LIFTINCHES IPPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: ROGRESS REPORT AT THE REQUEST OF RON CARPENTER WITH REID BURTON CONSTRUCTION, THE JOB SI					OBSER Test Da	VER IS NOT I NTA ARE NOT	PRESENT, AND	AT LOCAT	TIONS OTHER	R THAN THOSE TESTED.
PE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: ROGRESS REPORT AT THE REQUEST OF RON CARPENTER WITH REID BURTON CONSTRUCTION, THE JOB SI					SPECIF	ICAHONS.				•
ROGRESS REPORT AT THE REQUEST OF RON CARPENTER WITH REID BURTON CONSTRUCTION, THE JOB SI				IIVCHES						
SLAB TOMORROW (01-24-86) FOR THE AEROBICS FLOOR OF THE SPORTS CENTER. DURING OUR VITHE CONTRACTOR WAS BLADING THE TOP 4 INCHES OF SUBGRADE, TO BE LATER REPLACED WITH SQUEEGEE. NO FROST WAS UNCOVERED IN TOP 8 INCHES OF SUBGRADE. THE TEMPERATURE OF OIL WAS APPROXIMATELY 38°F. NO COMPACTION TESTS WERE REQUESTED BY THE CONTRACTOR.	VISIT SLAB THE C SQUEE	ED TO DETERMINE FROST CONT TOMORROW (01-24-86) FOR TH ONTRACTOR WAS BLADING THE GEE. NO FROST WAS UNCOVER	TENT II TE AERO TOP 4 RED IN	N THE OBICS INCH TOP	SUBGRA FLOOR ES OF S 8 INCHE	ADE MA OF TH SUBGRA ES OF	TERIAL E SPOR DE, TO SUBGRA	PRIOR TS CEN BE LA	R TO P NTER. ATER R THE TE	OURING CONCRETE DURING OUR VIS EPLACED WITH MPERATURE OF TH

IRK D. SKINNER

LD REPRESENTATIVE DS:RS

APPROVED BY

CTL/THOMPSON, INC.

RONALD M. MC OMBER P.E.



CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

JAMES N. CARETTO

JC:PV

DATE: 2-3-86	JOB. NO	125	32		
REPORT NO.	7	SHEET	.1 OF	_1	
SUBJECT					

PEPSI COLA SPORTS FACILITY ADDITION 3801 BRIGHTON BOULEVARD FOUNDATION WALL BACKFILL

				LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	25'W OF SOUTH EAST CORNER								CURVE #2
10	OF ATHLETIC BUILDING	12.0	NUC	126.5	10.0	120	9.6	95	JOB #11870
			-						
								 	
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		_							
								1	·
	·					*	ļ		
1						1			
*	BELOW GRADE (FEET)					<u> </u>			

SPECIFICATIONS: 95 % OF MAXIMUM ASTM D 1557 MOISTURE WITHIN ± 2 % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (1) SMOOTH PLATE COMPACTOR (1) 'WHACKER' TAMPER MOISTURE ADDED BY NATURAL	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS SPECIFICATIONS.
THICKNESS OF LIFT 12-18 INCHES	
TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:	
PROGRESS REPORT THE CONTRACTOR IS CONTINUING TO ATHLETIC BUILDING.) BACKFILL THE FOUNDATION WALL OF THE
 IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR OF IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED AND SHOULD BE REWORKED SCOPE OF OBSERVATION: ☐ FULL TIME; ☐ X PERIODIC, ON CALL BASIS; ☐ CONTRA 	

CTL/THOMPSON, INC.

APPROVED BY RONALD M. MC OMBER, P.E.



CLIENT:

IELD REPRESENTATIVE

S:PV

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE:	2-4-86	JOB. NO	125	32	
REPORT	VO	8	SHEET1_	OF	1
SUBJECT					

PEPSI COLA SPORT FACILITY ADDITION 3801 BRIGHTON BOULEVARD FOUNDATION WALL BACKFILL

				LABOR	ATORY		FIELD			· · · · · · · · · · · · · · · · · · ·
TEST NO.	LOCATION	DEPTH FEET	ĮEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	so	L TYPE
11	10'S.E. OF S.W. CORNER (EXTERIOR)	7.0	NUC	122	11.3	116	8.4	94	CURVI JOB	E #3 #11870
12	CENTER OF S.W. WALL (EXTERIOR)	7.0	NUC	122	11.3	119	7.5	98	1-1	11
13	20'N.W. OF S.E. CORNER (EXTERIOR)	7.0	NUC	122	_11.3	119	6.9	98	11	• •
									: -	
*	BELOW GRADE									

		1							
* BELOW G	DADE								
SPECIFICATIONS: MOISTL TYPE OF COMPACTION EQU (2) DOUBLE DI	_9.5	% OF O	PTIMUM	OF FILL UPON MOIST OBSER TEST D	L PLACEMEN THE CONTR URE TO ACH EVER IS NOT F	T, AS WELL A ACTOR TO A IEVE SPECIFI PRESENT, ANI	S THE TESTS S PPLY THE NEC ED COMPAC O AT LOCATIO	SHOWN AS CESSARY (CTION DUI ONS OTHE	JLT OF OUR OBSERVATION BOVE. WE HAVE RELIED COMPACTIVE EFFORT AND RING TIMES WHEN OUR IR THAN THOSE TESTED. IN WHETHER THE FILL MEETS
	8-12								
	UIPMENT AND NO. OF UNITS:	erye meggement de de esd t petril de de estre							
	D LOADER								
VISITS AT 8:0 OUR FIRST VI	RACQUETBALL COUR DO AM. AND 1:00 PM SIT. NO RETEST WA NEORMED OUR REPRES	M. THE	CONI	RACTOR	REROL	LED TH	OUR SE	A OF	TEST #11 DURIN VISIT THE
	OMPACTION MEETS SPECIFICATION OMPACTION DOES NOT MEET SPEC								
	FULLTIME; 🛱 PERIODIC, ON	CALL BASIS;	[]X CON	TRACTOR'S	OR CLIENT'S	REPRESENT	ATIVE ADVIS	ED BR	UCE RON W/
									BURTON
				CTL/THOM	PSON INC				
KTRK	CD. SKINNER			CIE/IIION	JOI4, 114C.				

APPROVED BY

RONALD M. MC OMBER, P.E.



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE., DENVER, CO 80204 (303) 825-0777

CHENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 2-5	5-86 JOB NO	12532	
REPORT NO	9	SHEET _1_ OF _	1
SUBJECT			

PEPSI COLA SPORTS FACILITY ADDITION 3801 BRIGHTON BOULEVARD FOUNDATION WALL BACKFILL

		[LABOR	PATORY		FIELD		1
TEST NO.	LOCATION	DEPTH FEET *	ĮEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
14	CENTER OF S.E. WALL RACQUETBALL COURT	3.0	NUC	128.5	9.5	128	7.5	100	CURVE #1 JOB #11870
15	5'N.E. OF S. CORNER OF	7.0	NUC	122	10.5	117	11.3	96	CURVE_#3 JOB_#11870
						-			
_*	BELOW GRADE								

M YPE OF COMPACTION	95 % OF MAXIMUM OISTURE WITHIN ± 2 N EQUIPMENT AND NO. OF UNITS: DRUM ROLLER	ASTM D 1557 % OF OPTIMUM	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS
	NATURAL 10-14	INCHES	SPECIFICATIONS.
	G EQUIPMENT AND NO. OF UNITS: -END LOADER		
ROGRESS REPORT	AS REQUESTED BY B	RUCE WITH REID	BURTON CONSTRUCTION, THE SITE WAS

(1) FRONT-END LOADER
ROGRESS REPORT AS REQUESTED BY BRUCE WITH REID BURTON CONSTRUCTION, THE SITE WAS
VISITED AT 8:30 AM AND 1:00 PM. THE CONTRACTOR WAS PLACING BACKFILL ALONG THE
EXTERIOR FOUNDATION WALL OF THE RACQUETBALL COURT.
XIN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(5)
IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(S)
AND SHOULD BE REWORKED
COPE OF OBSERVATION: [] FULL TIME; X] PERIODIC, ON CALL BASIS; X] CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISEDRON_WZREID
BURTON CONSTRUCTION.
CTL/THOMPSON, INC.

TL/THOMPSON, INC.

KIRK D. SKINNER

APPROVED BY

RONALD M. MC OMBER, P.E.



ıc	٨	n	r.

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80215

ATTN: MR. DON PATTON

DATE:	1-6-86	JOB. NO	1253	32	1
REPORT NO.	1	0	SHEET1_	OF	1
CLID ICCT					

PEPSI COLA SPORTS FACILITY ADDITION 3801 BRIGHTON BOULEVARD FOUNDATION WALL BACKFILL (EXTERIOR)

				LABOR	PATORY		FIELD			
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	:	SOIL TYPE
									CURV	E #3
16	5'N.E. OF WEST CORNER	3.0	NUC	122	11.3	115	9.5	94	JOB	#11870
17_	5'S.E. OF WEST CORNER	3.0	NUC	122	11.3	. 116	8.4	94	11	11
									CURV	E #2
18	18'S.E. OF WEST CORNER	3.0	NUC	126.5	10.0	122	7.5	96	JOB	#11870
1.7A	RETEST OF #17		NUC	122	11.3	115	7.8	94		E #3 #11870
178	RETEST OF #17		NUC	122	11.3	119	8.5	98	7 7	11
16A	RESTEST OF #16		NUC	122	11.3	120	11.9	98	11	ł 1
19	1 S OF SOUTH CORNER	1.0	NUC	122	11.3	121	8.5	99	11	11
20	4'N.W. OF S. CORNER	1.0	NÚC	122	11.3	120	9.2	92	1,	11

20 4'N.W. OF S. CORNER	1.0 NUC	: 122	11.3	120	9.2	92	111_	11
* BELOW GRADE								
PECIFICATIONS: 95 % OF MAXIMUM	ASTM D 1557	THIS R	EPORT PRESE	NTS OPINIO	NS FORMED	AS A RESU	JLT OF OL	JR OBSERVATION
MOISTURE WITHIN + 3					• • .			HAVE RELIED
PE OF COMPACTION EQUIPMENT AND NO. OF UNITS:								TIVE EFFORT AND
(1) DOUBLE DRUM ROLLER								ES WHEN OUR HOSE TESTED.
(2) TAMPERS								ER THE FILL MEETS
IOISTURE ADDED BY NATURAL		SPECI	FICATIONS.					
HICKNESS OF LIFT 10-12	INCHES							
PE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:								
(1) FRONT END LOADER								
OGRESS REPORT AS REQUESTED, BY VISITED TO PERFORM COMPACTION OUR FIRST VISIT THE CONTRACTO FEET ON THE WALL AS INDICATED TO THE JOB SITE AT NOON TO RE	N TESTS ON I OR WAS INFOR O BY TESTS #	HE EXTI RMED OF 16 AND	ERIOR F UNSATI #17.	OUNDAT SEACTO TWO SN	rion_w DRY_COI MALL_T	ALL B MPACT AMPER	ACKEI ION_W S_WEF	ILL. DUR VITHIN 1. XE BRQUGH
The state of the s	parameter and the second secon				pp and their even white or becomes			and the contrast contrast of the first beautiful contrast.
		CONTRACTOR OF THE STATE OF						
IN OUR COUNTS OF COMPACTION MEETS SPECIFICATION	ONE AS INIQUOATED BY	0110 0hccm	710116 1110 7		10 1	70 1	C A 1	10 20
IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATION						1.□L'	O.M.• 1	, 3 .9 & U

CTL/THOMPSON, INC.

KIRK D. SKINNER

AND SHOULD BE REWORKED

APPROVED BY RONALD M. MC OMBER, P.E.

CONSTRUCTION.



CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 2-7-86	JOB. NO	12532) 	
REPORT NO11	·	SHEET_1_	OF	1
SUBJECT				

PEPSI COLA, SPORTS FACILITY ADDITION 3801 BRIGHTON BOULEVARD FOUNDATION WALL BACKFILL (EXTERIOR)

				LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
21	7'S.E. DF W. CORNER	0.0	NUC	126.5	10.0	113	6.7	89	CURVE #2 JOB #11870
22	22 S.E. OF WEST CORNER	0.0	NUC	126.5	10.0	113	6.7	89	11 11
_21A	RETEST OF #21		NUC	126.5	10.0	126	5.7	100	11 11
22	RETEST OF #22		NUC	126.5	10.0	124	6.0	98	11 11
23	4'S.W. OF FAST CORNER	10.0	NUC	126.5	10.0	122	8.9	96	11 11
24	10 S.W. DE EAST CORNER	6.0	NUC	128.5	9.5	127	7.7	99**	CURVE #1 JOB #12167
								ļ	
*	BELOW GRADE								kanaga garangana wik na kinain pikilana pikilikan malika renamabirla

A8% OL MAYIMOM A21M D 030	
PECIFICATIONS: 95 % OF MAXIMUM ASTM D 1557 MOISTURE WITHIN ±3 % OF OPTIMUM YPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (2) TAMPERS (1) DOUBLE DRUM ROLLER MOISTURE ADDED BY	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS SPECIFICATIONS.
HICKNESS OF LIFT 10-12 INCHES	
YPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: (1.) FRONT—END LOADER	

ROGRESS REPORT CONTRACTOR INFORMED OUR REPRESENTATIVE THE BACKFILL WAS COVERED WITH BLANKETS OVERNIGHT. THE CONTRACTOR WAS INFORMED OF UNSATISFACTORY COMPACTION IN AREA OF TESTS 21 AND 22. THIS AREA WAS THEN WHEEL-ROLLED WITH A FRONT-END LOADER. DURING OUR THIRD VISIT OUR FIRLE REPRESENTATIVE NOTICED A 6-INCH THICK LAYER OF ICE IN THE FILL, SOUTHWEST OF THE RACQUET BALL COURT, 1.5 FEET BELOW THE SURFACE. THIS WAS BROUGHT TO THE ATTENTION OF RON CARPENTER WITH REID BURTON CONSTRUCTION. HE INFORMED US THAT THEY HAD PROBLEMS WITH DRAINS AND SURFACE DRAINAGE DURING THE MONTH ECEMBER. RON CARPENTER WAS INFORMED THIS ICE SHOULD BE REMOVED PRIORYTO ADDITIONAL FILL. IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(S)

AND SHOULD BE REWORKED

COPE OF OBSERVATION: I) FULL TIME: X: PERIODIC, ON CALL BASIS; X) CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED. RON. CARPENTER W/

CTL/THOMPSON, INC.

REID BURTON CONSTRUCTION

KIRK D. SKINNER

IELD REPRESENTATIVE

APPROVED BY



CTL/THOMPSON, INC. CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

February 28, 1986

Pepsi Cola Company 3801 Brighton Boulevard Denver, Colorado 80216

Attention: Mr. Don Patton

Subject: Footing Inspection

Athletic Complex Addition

Pepsi Plant

3801 Brighton Boulevard

Denver, Colorado Job No. 12,532

Gentlemen:

As requested, a representative of our office inspected construction of footings at the subject site on February 17, 1986. At this time footings on C line in the Gymnasium and on the south exterior wall of the kitchen were formed. Footings were supported by soils suitable for construction of footings designed for a maximum allowable bearing pressure of 3000 psf as presented in a Soils and Foundation Investigation prepared by our firm for the project (Job No. 11261, revised March 28, 1985). The footings were prepared and steel reinforcement was in place in general conformance with the plans on site.

If we can be of further service, please call.

Very truly yours,

CTL/THOMPSON, INC.

Ronald M. Mc Omber, P.E.

RMM:pv

(3 copies sent)

1cc: Reid Burton Construction

		Job No12532
		Date 2-19-86
ɔ :	PEPSI COLA COMPANY	Subject: Inspection report of Drilled Holes for
	3801 BRIGHTON BOULEVARD	PEPSI COLA SPORTS CENTER
	DENVER, COLORADO 80216	3801 BRIGHTON BOULEVARD
		-

Daily Report No. ___ PIER DEPTH LENGTH WATER DEPTH TO TOP OF CONCRETE CASED DEPTH IN OVERBURDEN TOTAL DEPTH DRILLED Depth of Water Depth to Water Description of Pier Pier ŏ õ IN BEDROCK Condition c Bottom Date PL ANNED Condition SIDES Dia. Supporting Stratum No. ACTUAL . C 1.1 SANDSTONE BEDROCK AT 44 FEET NOT CASED OR DRILLED 2-19 36 BEYOND TOP OF BEDROCK 3.5 2-19 SANDSTONE BEDROCK AT 39 FEET CASING SET AT 37 FEET 36 PUSHED DOWN ONLY 1 TO 2 INCHES

PIERS WERE NOT COMPLETED

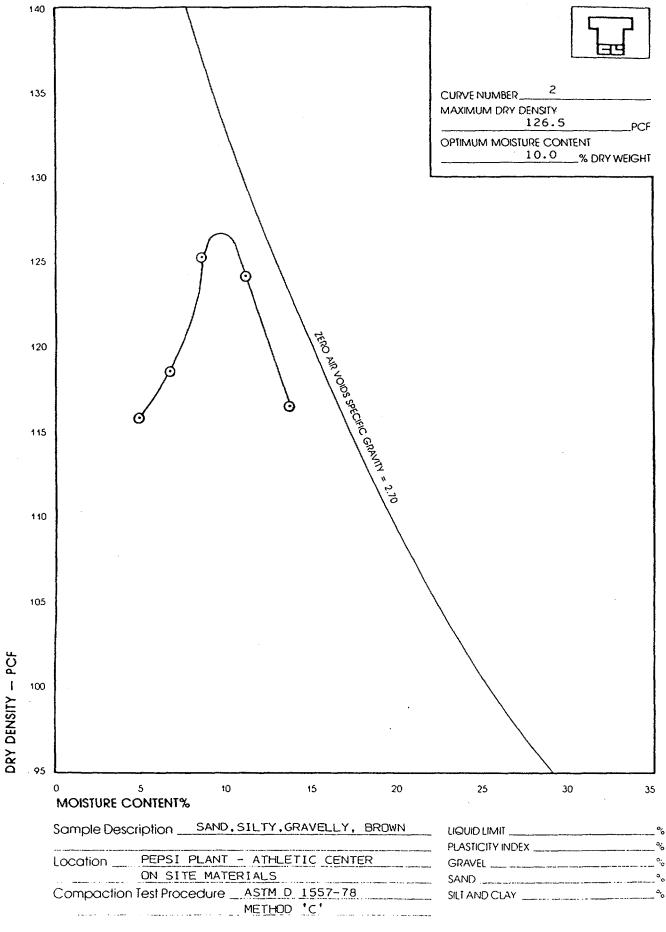
Piers inspected. Holes were drilled to proper bearing ma	XI Pie	IXI I	Piers inspected	Holes	were	drilled	to	proper	bearing	materials.
--	--------	-------	-----------------	-------	------	---------	----	--------	---------	------------

لكا	Pier hole locations shown	ON PLANS BY KLIPP	ASSOCIATES.	JOB	#8511

Remarks:

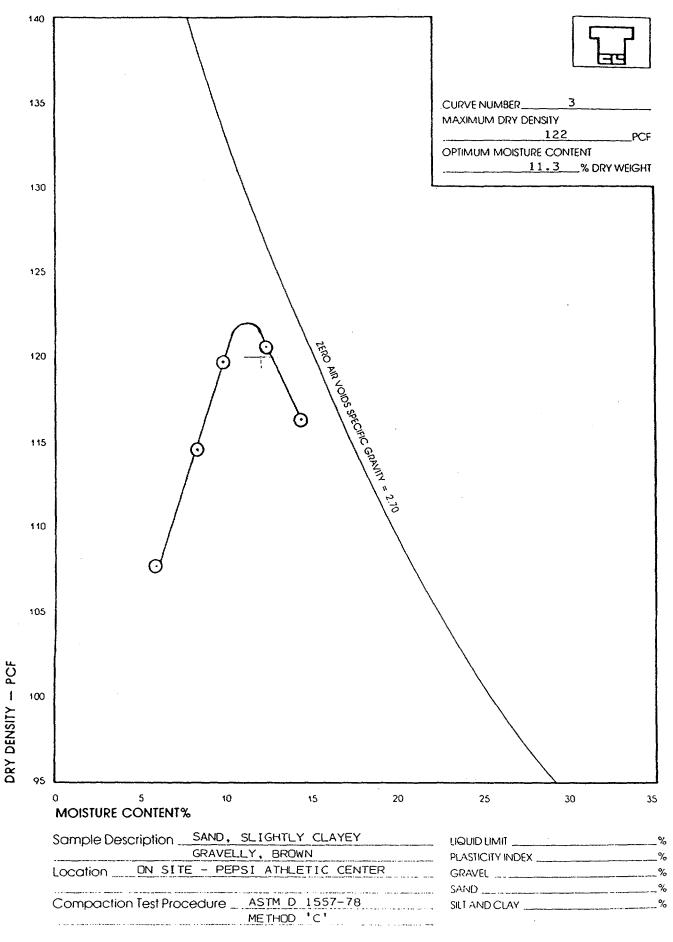
	CLARK MORRISON
	Field Engineer
Approved by	RONALD M. MC OMBER. P. F.

Piers at



Compaction Test Results

ING NO 11070 /106701



Compaction Test Results



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE. DENVER, CO 80204 (303) 825-0777

CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80215

ATTN: MR. DON PATTON

DATE.

REPORT NO

SUBJECT

1-6-86 JOB.NO. 12532

10

SHEET 1 OF

PEPSI COLA SPORTS FACILITY ADDITION 3801 BRIGHTON BOULEVARD

FOUNDATION WALL BACKFILL (EXTERIOR)

				LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION	SOIL TYPE
16	5'N.E. OF WEST CORNER	3.0	NUC	122	11.3	115	9.5	94	CURVE #3 JOB #11870
17	5°S.E. OF WEST CORNER	3.0	NUC	122	11.3	116	8.4	94	11 11
18	18'S.E. OF WEST CORNER	3.0	NUC	126.5	10.0	122	7.5	96	CURVE #2 JOB #11870
17A	RETEST OF #17		NUC	122	11.3	115	7.8	94	CURVE #3 JOB #11870
178	RETEST OF #17		NUC	122	11.3	119	8.5	98	1 1 1 1
_16A	RESTEST OF #16		NUC	122	11,3	120	11.9	98	3 7 7 7
19	1 'S OF SOUTH CORNER	1.0	NUC	122	11.3	121	8.5	99	11 (1
20	4'N.W. OF S. CORNER	1.0	NUC	122	11.3	120	9.8	98	1 1 t 1

BELOW GRADE

SPECIFICATIONS: 95 % OF MAXIMUM ASTM D 1557

MOISTURE WITHIN _____ ± 3 ____ % OF OPTIMUM

YPE OF COMPACTION EQUIPMENT AND NO. OF UNITS:

(1) DOUBLE DRUM ROLLER

(2) TAMPERS MOISTURE ADDED BY NATURAL

HICKNESS OF LIFT 10-12

INCHES

YPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:

(1) FRONT END LOADER

OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE, WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS SPECIFICATIONS.

THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION

PROGRESS REPORT AS REQUESTED, BY BRUCE WITH REID BURTON CONSTRUCTION THE JOB SITE WAS VISITED TO PERFORM COMPACTION TESTS ON THE EXTERIOR FOUNDATION WALL BACKFILL. DURING OUR FIRST VISIT THE CONTRACTOR WAS INFORMED OF UNSATISFACTORY COMPACTION WITHIN 1.5 FEET ON THE WALL AS INDICATED BY TESTS #16 AND #17. TWO SMALL TAMPERS WERE BROUGHT TO THE JOB SITE AT NOON TO RECOMPACT THIS AREA.

 \pm in our opinion, fill compaction meets specifications as indicated by our observations and test no.(5) -18 , -178 , -168 , -19 , -201 IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO. [5]

AND SHOULD BE REWORKED

ICOPE OF OBSERVATION: FULL TIME; X PERIODIC, ON CALL BASIS; X CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED RON W/REID BURTON CONSTRUCTION.

CTL-THOMPSON INC.

KIRK D. SKINNER

ADDOMEDS RONALD M. MC OMBER, P.E. JELD REPRESEMBLY S

PEPSI COLA COMPANY

3801 BRIGHTON BOULEVARD

DENVER, COLORADO 80216

ATTN: MR. DON PATTON



CLIENT:

JOB. NO. 12532 2-13-86 DATE

REPORT NO 12

SHEET 1 OF 1

SUBJECT.

PEPSI COLA SPORTS FACILITY 3801 BRIGHTON BOULEVARD FOUNDATION WALL BACKFILL

				LABOR	PATORY		FIELD	i	
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
25	4' NW OF E. CORNER	10	NUC	122	11.3	117	8.3	96	CURVE #3 JOB #11870
26	15' NW OF E. CORNER	10	NUC	122	11.3	116	9.2	95	CURVE #3 JOB #11870
27	30 NW OF E. CORNER	9	NUC	122	11.3	116	9.5	95	CURVE #3 JOB #11870
									-
	* BELOW GRADE								

SPECIFICATIONS:

95 % OF MAXIMUM. ASTM D1557

MOISTURE WITHIN ± 3

_ % OF OPTIMUM

TYPE OF COMPACTION EQUIPMENT AND NO OF UNITS:

(3) TAMPERS

(1) DRUM ROLLER

NATURAL MOISTURE ADDED BY

8 - 12 THICKNESS OF LIFT

INCHES

TYPE OF EARTH MOVING EQUIPMENT AND NO OF UNITS.

(1) FRONT END LOADER

PROGRESS REPORT AS REQUESTED BY REID BURTON CONSTRUCTION THE SITE WAS VISITED THROUGHOUT THE DAY TO PERFORM COMPACTION TESTS ON THE BACKFILL BEING PLACED ON THE NORTHEAST SIDE OF THE RACQUET BALL COURT.

SPECIFICATIONS.

X IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(5)

THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION

UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND

TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS

OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED

MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR

OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED.

IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(S) AND SHOULD BE REWORKED

SCOPE OF OBSERVATION:

FULL TIME: X PERIODIC, ON CALL BASIS; X CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED

RON CARPENTER

APPROVED BY

CTL/THOMPSON, INC.

RONALD M. MC OMBER, P. E.

KIRK SKINNER

PARAMISH RATE OF THE KS:DM



CLIENT

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

2-14-86

JOB NO 12532

MECHINO 13

SHEET 1 OF 1

>84C

PEPSI COLA SPORTS FACILITY 3801 BRIGHTON BOULEVARD FOUNDATION WALL BACKFILL

HIIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FIGUREACEMENT, AS WELL AS THE TESTS SHOWN ABOVE WE HAVE RELIED

UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND

TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS.

MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR

OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED.

				LABOR	RATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION	SOIL TYPE
							- a	00	CURVE #3
28	5' NW OF E, CORNER	6.0	NUC	122	11.3	119	7.8	98	JOB #11870
29	20' NW OF E. CORNER	6.0	NUC	122	11.3	119	7.7	98	1 1
	EAST WALL 10' N. OF SE								
30	CORNER	1.5	NUC	122	11.3	116	8.6	95	1 1
	EAST WALL 70' N. OF SE								• •
31	CORNER	4.0	NUC	122	11.3	117	8.3	96	· · · · · · · · · · · · · · · · · · ·
		 	 	 	ļ		ļ	 	
	* BELOW GRADE								

SPECIFICATIONS:

95

SOF MAXIMUM ASTM D 1557

MOISTURE WITHIN ± 3

CONTRACTOR OF

TYPE OF COMPACTION EQUIPMENT AND NO OF UNITS

TYPE OF EARTH MOVING EQUIPMENT AND NO OF UNITS

- (1) WALK BEHIND VIBRATORY ROLLER
- (2) WHACKERS

MOISTURE ADDED BY NATURAL

THICKNESS OF LIFT

2:000

10 - 12

(1) LOADER

PROGRESS REPORT DURING OUR SITE VISITS, THE CONTRACTOR WAS PLACING AND COMPACTING ON SITE FILL MATERIAL ALONG THE EAST WALL OF THE RACQUETBALL COURTS. THE ABOVE DENSITY TESTS WERE PERFORMED THROUGHOUT THE DAY.

√ IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(5) IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(5)

AND SHOULD BE REWORKED

SCOPE OF OBSERVATION:

FULL TIME: X PERIODIC, ON CALL BASIS; X CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED

COMPACTION FOREMAN

CTL THOMPSON, INC.

SPECIFICATIONS

KIRK SKINNER/KIRK STEADMAN

.... 1,51,44 RONALD M. MC OMBER, P. E.

KS: KS: DM



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE, DENVER, CO 80204 (303) 825-0777

CUENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLDRADO 80216

ATTN: MR. DON PATTON

DAIE 2-17-86

_{JOB NO} 12532

REPORT NO

SHEET 1 OF 1

SUBJECT

PEPSI COLA SPORTS FACILITY 3801 BRIGHTON BOULEVARD FOUNDATION WALL BACKFILL

		[LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC °;	DRY DENSITY PCF	MC %	COM- PACTION	SOIL TYPE
	NORTH WALL 10' W. OF NE								CURVE #3
32	CORNER	4.5	NUC	122	11.3	119	8.3	98	JOB #11870
	EAST WALL 5' S. OF NE								CURVE #3
33	CORNER	2.0	NUC	122	11.3	117	8.6	96	JOB #11870
	EAST WALL 10' S. OF NE							**	CURVE #1
34	CORNER	0.0	NUC	128.5	9.5	127	6.2	99	JOB #12167
	NORTH WALL 25' W. OF NE							**	CURVE #1
35	CORNER	1.0	NUC	128.5	9.5	123	8.4	96	JOB #12167
	* BELOW GRADE								
	** 98% OF MAXIMUM ASTM	D698							

SPECIFICATIONS:

95

THORMANIMUM ASTM D1557

MOISTURE WITHIN ± 3

OF OPTIMUM.

TYPE OF COMPACTION EQUIPMENT AND NO OF UNITS.

- (1) 815 SHEEPSFOOT ROLLER
- (2) WHACKERS (1) 2 STEEL WHEEL ROLLERS

MOISTURE ADDED BY NATURAL

THICKNESS OF LIFT

8 TO 10

INCHES

TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS

(1) LOADER

DURING OUR SITE VISITS THE CONTRACTOR WAS PLACING AND COMPACTING FILL MATERIAL ALONG THE FOUNDATION WALL OF THE RACQUETBALL COURTS. THE ABOVE DENSITY TESTS WERE PERFORMED THROUGHOUT THE DAY.

IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.[S]

32 - 34

THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE WE HAVE RELIED

UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND

TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS

MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR

OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED.

X IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO. [5]

35

SCOPE OF OBSERVATION: FULL TIME; X PERIODIC, ON CALL BASIS; X CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED RON (REID BURTON)

CTL/THOMPSON, INC.

SPECIFICATIONS

KIRK STEADMAN KS:DM

AND SHOULD BE REWORKED

APPROXIDES,

RONALD M. MC OMBER, P. E.



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE. DENVER, CO 80204 (303) 825-0777

CLIENT:

2-20-86 REPORT NO. 15

JOB NO. 12532

SHEET OF 1

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216 SUBJECT

PEPSI COLA SPORTS FACILITY 3801 BRIGHTON BOULEVARD FOUNDATION WALL BACKFILL

ATTN: MR. DON PATTON

				LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
36	NORTH WALL OF RACQUETBALL COURTS, 10'W OF NE CORNER	0.0	NUC	122	11.3	119	11.9		CURVE #3 JOB #11870
									wante i ili aya aya ya kana ili wasa wa was
			-						mana ay tanki ana da a pasay ta ta a ay ay ay ay ay ay ay ay
									and to be the first the state of the state o
	A								AND THE RESERVE OF THE PROPERTY OF THE PROPERT
									gan an suit th' think or against to a game with the distillation.
	* BELOW GRADE								

SPECIFICATIONS:

95

% OF MAXIMUM ASTM D 1557

MOISTURE WITHIN ± 3

% OF OPTIMUM

YPE OF COMPACTION EQUIPMENT AND NO. OF UNITS:

- (2) 815 SHEEPSFOOT ROLLERS
- (2) WHACKERS (1) 2 STEEL WHEEL ROLLER

ADISTURE ADDED BY NATURAL

HICKNESS OF LIFT

10 - 12

INCHES

YPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:

(1) LOADER

ROGRESS REPORT ... AS REQUESTED BY BRUCE FOSTER WITH REID BURTON A SITE VISIT WAS MADE TO

THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION

UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND

TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS

OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED

MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR

OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED.

PERFORM DENSITY TESTS ON FOUNDATION WALL BACKFILL. THE SUBCONTRACTOR HAS COMPLETED BACKFILL OF FOUNDATION WALLS UNTIL ADDITIONAL CONSTRUCTION IS COMPLETED.

🕆 IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.[S]

IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(S)

AND SHOULD BE REWORKED

COPE OF OBSERVATION:

FULL TIME; X PERIODIC, ON CALL BASIS; X; CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED BRUCE (REID BURTON)

CTL THOMPSON, INC.

SPECIFICATIONS.

KIRK STEADMAN FUD REPRESENTATIVE



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE, DENVER, CO 80204 (303) 825-0777

CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 2-21-86 JOB. NO. 12532 REPORT NO. 16 SHEET 1 OF 1 SUBJECT

PEPSI COLA SPORTS FACILITY 3801 BRIGHTON BOULEVARD FOUNDATION WALL BACKFILL

				LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
20A	RETEST OF #20		NUC	122	11.3	116	8.6	95	CURVE #3 JOB #11870
						ŧ			and the second s

PECIFICATIONS: 95	% OF MAXIMUM	ASTM D 1557	
MOISTURE	WITHIN ± 3	% OF OPTIMUM	
YPE OF COMPACTION EQUIP	MENT AND NO. OF UNITS:		
4OISTURE ADDED BY	Type of the second seco		
HICKNESS OF LIFT		INCHES	
YPE OF EARTH MOVING EQUI	PMENT AND NO. OF UNITS:		

THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS SPECIFICATIONS.

ROGRESS REPORT AS REQUESTED BY BRUCE WITH REID BURTON, A SITE VISIT WAS MADE TO PERFORM DENSITY TESTS ON FOUNDATION WALL BACKFILL. THE ABOVE RETEST WAS PERFORMED AT THIS TIME.

 $_{i}$ in our opinion, fill compaction meets specifications as indicated by our observations and test no.[s] $^{2 ext{C}}$

! IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(S)
AND SHOULD BE REWORKED

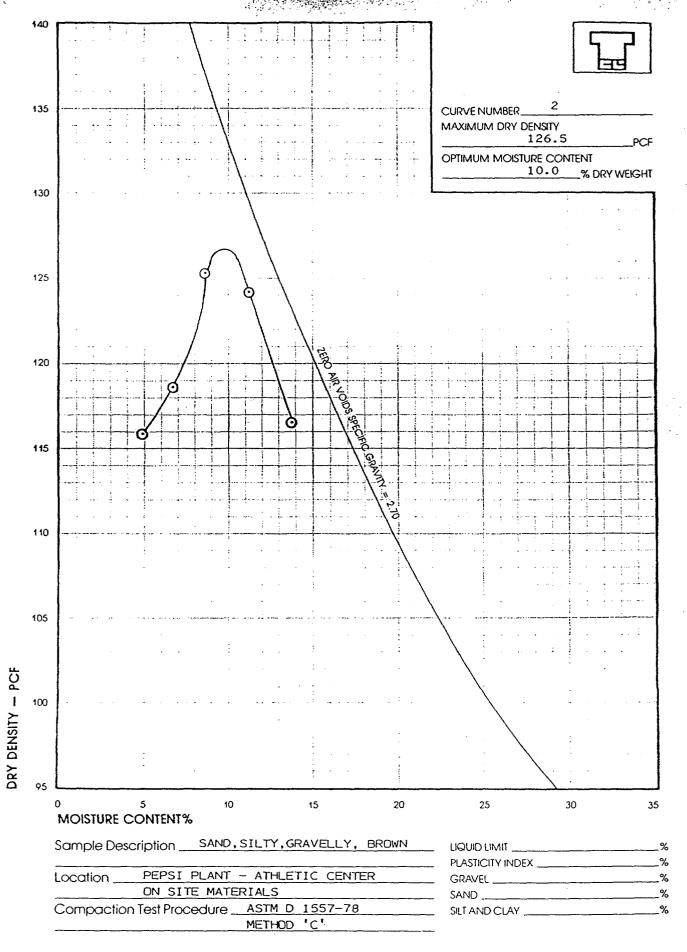
COPE OF OBSERVATION: FULL TIME; X: PERIODIC, ON CALL BASIS; XCONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED BRUCE (REID BURTON)

CTL THOMPSON, INC.

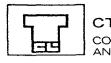
KIRK STEADMAN

ELD REPRESENTATIVE KS:DM

RONALD M. MC OMBER. P. E.



Compaction Test Results



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE, DENVER, CO 80204 (303) 825-0777

CLIENT:

PEPSI COLA COMPANY 3801 BIRGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 2-26-86	JOB. NO	12532	
REPORT NO			
SUBJECT			

PEPSI COLA SPORTS FACILITY 3801 BRIGHTON BOULEVARD FOUNDATION WALL BACKFILL

				LABOR	ATORY		FIELD		····	
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	owc %	DRY DENSITY PCF	мс %	COM- PACTION %	sc	OIL TYPE
	GRID LINE D-11, S. SIDE									/E #2
37	OF FOOTING	0.0	NUC	126.5	10.0	124	7.3	98	JOB	#11870
38	GRID LINE D-10, N. SIDE OF FOOTING	0.0	NUC	126.5	10.0	123	6.5	97	11	11
39	GRID LINE C-10.5 S. SIDE OF FOOTING	0.0	NUC	126.5	10.0	121	5.2	96	11	11
40	GRID LINE C-11.5, N.SIDE OF FOOTING	0.0	NUC	126.5	10.0	121	5.2	96	11	11
41	FOUNDATION WALL, GRID LINE			126.5			4.4	97	1 1	11
	OF RAQUET BALL COURT									
*	BELOW GRADE									

PECIFICATIONS: 95 % OF MAXIMUM ASTM D 1557 MOISTURE WITHIN +3 % OF OPTIMUM	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND
YPE OF COMPACTION EQUIPMENT AND NO. OF UNITS:	MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS
MOISTURE ADDED BY NATURAL	SPECIFICATIONS.
HICKNESS OF LIFT NOT OBSERVED INCHES YPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:	•
(1) FRONT END LOADER	
TION HAD BEEN COMPLETED PRIOR TO OUR VISIT	L N.E. OF THE RACQUET BALL COURTS. COMPAC-
IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR	OBSERVATIONS AND TEST NO.[S] 37-41
IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATE AND SHOULD BE REWORKED	
COPE OF OBSERVATION: $\{i\}$ full time; \mathbf{X} $\}$ periodic, on Call Basis; $\{i\}$ Conti	RACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED RON, CARPENTER/REID
	BURTON

CTL/THOMPSON, INC.

KIRK D. SKINNER

IELD REPRESENTATIVE

⟨S:PV

VB COVCHARA

RONALD M. MC OMBER, P.E.



CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 3-5-86		JOB. NO	2532		
REPORT NO	18	SHEET	1 OF .	1	
SUBJECT					

PEPSI COLA SPORTS FACILITY 3801 BRIGHTON BOULEVARD FOUNDATION WALL BACKFILL

Γ				LABOR	PATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
42	12'N.E. OF S. CORNER OF RAQUET BALL COURT	9.0	NUC	128.5	9.5	126	9.0	98	CURVE #1 JOB #12167
43	S. CORNER OF RACQUET BALL COURT	8.0	NUC	128.5	9.5	130	7.2	100	71
			-15						

MOISTURE WITHIN ±3 % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (2) TAMPERS MOISTURE ADDED BY NATURAL, THICKNESS OF LIFT 6-10 INCHES	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS SPECIFICATIONS.					
TYPE OF EARTH MOVING EQUIPMENT AND NO, OF UNITS:						
(1) FRONT END LOADER						
PERFORMED ON THE RACQUET BALL COURT EXTERI CONTRACTOR REQUESTED THREE SITE VISITS TON	MORROW (3-6-86).					
XIN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR	R OBSERVATIONS AND TEST NO.(S) 42-43					
() IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATE AND SHOULD BE REWORKED	ED BY OUR OBSERVATIONS AND TEST NO.(S)					
SCOPE OF OBSERVATION: The FULL TIME: X PERIODIC, ON CALL BASIS; X CONTR	RACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED RON CARPENTER/ REID BURTON					

CTL:THOMPSON, INC.

KIRK D. SKINNER



CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: _ 3 -6-86	JOB. NO	12532	
REPORT NO. 19		SHEET 1 OF	2
SUBJECT			

PEPSI COLA, SPORTS FACILITY 3801 BRIGHTON BOULEVARD FOUNDATION WALL BACKFILL FOR GYMNASIUM

				LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	E. CORNER OF GYM								CURVE #3
44	INTERIOR	5.5	NUC	122	11.3	114	10.8	93	JOB #11870
45	20'S.W. OF E. CORNER OF GYM, INTERIOR	4.0	NUC	122	11.3	112	12.9	92	· • • • • • • • • • • • • • • • • • • •
46	CENTER OF S.E. SIDE OF GYM, INTERIOR	3.0	NUC	122	11.3	111	6.7	91	
47	CENTER OF S.E. SIDE EXTERIOR	4.0	NUC	122	11.3	117	7.9	96	11 11
48	50'N.E. OF S. CORNER OF GYM, EXTERIOR	4.5	NUC	122	11.3	110	6.9	90	9 9
44A	RETEST OF #44		NIX	126.5	10.0	127	6.5	100	CURVE #2 JOB #11876
									11 11
45A	RETEST OF #45		NUC	126.5	10.0	126	8.9	100	CURVE #3
46A	RETEST OF #46		NUC	122	11.3	116	9.1	95	JOB #11870

BELOW GRADE SPECIFICATIONS: 95 % OF MAXIMUM ASTM D 1557 THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE, WE HAVE RELIED MOISTURE WITHIN ± 3 % OF OPTIMUM UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR (3) TAMPERS, (1) VIBRATORY ROLLER OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS The same of the control of the state of the state of the same of t SPECIFICATIONS. MOISTURE ADDED BY (1) WATER HOSE THICKNESS OF LIFT 8-12 INCHES TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: (1) BACKHOE, (1) FRONT-END LOADER DURING OUR FIRST VISIT TO THE JOB SITE THE CONTRACTOR WAS INFORMED OF THE UNSATISFACTORY COMPACTION ALONG THE INTERIOR SOUTHEAST FOUNDATION WALL. THE CONTRACTOR EXCAVATED THE TOP TWO FEET AND REPLACED IT WITH DIFFERENT BACKFILL. ALSO A VIBRATING DRUM ROLLER WAS BROUGHT ONTO THE SITE FOR COMPACTION. 17 IN OUR OPINION FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(5) 47, 44A, 45A, 46A X) IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(S)

SCOPE OF OBSERVATION: (1) FULL TIME: X' PERIODIC, ON CALL BASIS; X! CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED

RON CARPENTER

W/REID BURTON

CTL:THOMPSON, INC.

AND SHOULD BE REWORKED



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE . DENVER, CO 80204 (303) 825-0777

CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 3-6-86	JO8, NO.	1253	2	
REPORT NO		. SHEET . 2	OF 2	
SUBJECT				

PEPSI COLA, SPORTS FACILITY 3801 BRIGHTON BOULEVARD FOUNDATION WALL BACKFILL FOR GYMNASIUM

		T		LABOR	RATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
				4.00		400			CURVE #3
48A	RETEST OF #48	 	NUC	122	11.3	122	8.2	100	JOB #11870
49	15'N.W. OF E. CORNER OF GYM, INTERIOR	1.5	NUC	126.5	10.0	127	8.6	100	CURVE #2 JOB #11870
	30'S.W. OF E. CORNER OF						_		CURVE #3
50	GYM, INTERIOR	1.5	NUC	122	11.3	116	7.9	95	JOB #11870
	10 N.E. OF S. CORNER OF								CURVE #2
51	GYM, INTERIOR	0.5	NUC	126.5	10.0	124	7.4	98	JOB #11870
		-							
		-				·			
*	BELOW GRADE								

SPECIFICATIONS: 95 % OF MAXIMUM ASTM D 698 MOISTURE WITHIN ± 3 % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (2) TAMPERS	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS
MOISTURE ADDED BY NATURAL	SPECIFICATIONS.
THICKNESS OF LIFT 6-10 INCHES	
TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:	
(1) FRONT END LOADER	
PROGRESS REPORT SEE SHEET 1 OF REPORT #19.	
AARTO CONTROL TO MINERAL PROPERTY OF THE PROPE	TO THE RESIDENCE OF THE PROPERTY OF THE PROPER
XIN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR	R OBSERVATIONS AND TEST NO.(S) 48A, 49-51
] IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATE AND SHOULD BE REWORKED	ED BY OUR OBSERVATIONS AND TEST NO.(S)
SCOPE OF OBSERVATION: [1] FULL TIME: X1 PERIODIC, ON CALL BASIS; XCONTR	PACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED RON CARPENTER

CTL/THOMPSON, INC.

KIRK D. SKINNER

W/REID BURTON



CONSULTING GEOTECHNICAL

1971 WEST 12TH AVE. DENVER, CO 80204 (303) 825-0777

CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 3-7-86	JOB. NO		1253	32
REPORT NO	20	SHEET	1 OF	2
SUBJECT				

PEPSI COLA SPORTS FACILITY 3801 BRIGHTON BOULEVARD FOUNDATION WALL BACKFILL

				14000	470.00	<u> </u>	5151.5		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	FIELD MC %	COM- PACTION %	SOIL TYPE
	FROM S.E. CORNER OF THE BUILDING								
52	45 N, 2 E EXTERIOR	3.0	NUC	126.5	10.0	120	8.5	95	CURVE #2 JOB #11870
53	95°N, 3°E EXTERIOR	3.0	NUC	130	7.5	123	7.7	95	CURVE #1 JOB #11870
54	50°N, 2°E INTERIOR	0.0	NUC	130_	7.5	123	8.2	95	1 9 9 9
55	25'N, 2'E EXTERIOR	0.5	NUC	130	7.5	123	8.3	95	1 7 1 1
56	90'N, 3'E EXTERIOR	1.0	NUC	126.5	10.0	120	8.5	95	CURVE #2 JOB #11870
57	75'N. 2'E EXTERIOR	0.0	NUC		11.3	117	8.4	96	CURVE #3 JDB #11870
*	BELOW GRADE								

SPECIFICATIONS: 95 % OF MAXIMUM ASTM_D 1557 MOISTURE WITHIN ± 3 % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (1) DOUBLE DRUM VIBRATORY ROLLER (1) WHACKER TAMPER MOISTURE ADDED BY (1) WATER HOSE THICKNESS OF LIFT 8 INCHES TYPE OF FARTH MOVING EQUIPMENT AND NO. OF UNITS:	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS SPECIFICATIONS					
(1) FRONT-END LOADER						
EXTERIOR OF THE SOUTHEAST FOUNDATION WALL WAS ALSO FINE GRADING THE FLOOR SLAB SUBG BUILDING.	RADE IN THE SOUTHEAST PORTION OF THE					
$oldsymbol{igvee}^{ ext{!}}$ in our opinion, fill compaction meets specifications as indicated by our						
IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICAT AND SHOULD BE REWORKED	ED BY OUR OBSERVATIONS AND TEST NO.(S)					
SCOPE OF OBSERVATION: THE FULL TIME: X PERIODIC, ON CALL BASIS; X CONTI	RACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED DARREL/REID BURTON					

DELMAR FISCHER

CTL-THOMPSON, INC.



CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 3-7-86	JOB. NO	12532	
REPORT NO.	20	SHEET 2OF	2
SUBJECT			
PEPST ON A	A SPORTS !	FACTL ITY	

PEPSI COLA SPORTS FACILITY 3801 BRIGHTON BLVD. UNDER SLAB FILL

				LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	80'N, 12'W FROM S.E.					,,,,,,			CURVE #2
58	CORNER OF THE BLDG.	0.0	NUC	126.5	10.0	116	9.0	92	JOB #11870
	25'N, 12'W FROM S.E.								CURVE #1
59	CORNER OF THE BLDG.	0.0	NUC	130	7.5	121	7.0	93	JOB #11870
									CURVE #2
58A	RETEST OF 58		NUC	126.5	10.0	121	8.0	96	JOB #11870
]							CURVE #1
59A	RETEST OF 59		NUC	130	7.5	123	6.6	95	JOB #11870
*	BELOW GRADE								

SPECIFICATIONS: 95 % OF MAXIMUM ASTM D 1557 MOISTURE WITHIN ± 3 % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (1) DOUBLE DRUM VIBRATORY ROLLER (1) WHACKER TAMPER MOISTURE ADDED BY (1) WATER HOSE THICKNESS OF LIFT 8 INCHES TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: (1) FRONT-END LOADER	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE, WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS SPECIFICATIONS.
K; IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR	OBSERVATIONS AND TEST NO.(S) 58A, 59A
1 IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED AND SHOULD BE REWORKED	• •
SCOPE OF OBSERVATION: FULL TIME; X: PERIODIC, ON CALL BASIS; X: CONTRA	ACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED DARREL/REID BURTON

CTL:THOMPSON, INC.



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE, DENVER, CO 80204 (303) 825-0777

CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 3-10-86	JOB, NO	12532	
REPORT NO. 2			
SUBJECT			

PEPSI COLA, SPORTS FACILITY 3801 BRIGHTON BOULEVARD FOUNDATION WALL BACKFILL, GYMNASIUM

		1		LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
60	S. CORNER OF GYM, EXTERIOR	0.0	NUC	128.5	9.5	126	8.6	98	CURVE #1 JOB #12167
61	7°N.E. OF S. CORNER OF GYM. EXTERIOR	0.0	NUC	128.5	9.5	127	8.9	99	11 11
62	16'N.W. OF S. CORNER OF GYM. EXTERIOR	3.0	NUC	122	11.3	118	7.8	97	CURVE #3 JOB #11870_
63	30 N.W. OF S. CORNER OF GYM, EXTERIOR	3.0	NUC	122	11.3	120	11.7	98	11 11
64	45'N.W. OF S. CORNER OF GYM, INTERIOR	4.0	NUC	122	11.3	113	6.0	93	11 11
						4			
*	BELOW GRADE								

	**98			۵	STM E	698	
SPECIFICATIONS:	95	% of Maximu	M		STM	1557	Ti
	MOISTURE WITH	#N <u>+</u>	3		% OF OPTI	MUM	С
TYPE OF COMPACT (2) TAME	ERS, (1)		SY C				M O TE
MOISTURE ADDED I	BY (1) WA	TER HOSE					ŞF
THICKNESS OF LIFT	\$10-115 \$ 1 1 F # 1 1 W 1 M WWW. Suppose of	6-10			IN	CHES	
TYPE OF EARTH MO		IT AND NO. OF UN	IITS:				

THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS SPECIFICATIONS.

THE CONTRACTOR BEGAN BACKFILLING THE SOUTHWEST FOUNDATION WALL OF THE GYMNASIUM, ADJACENT TO THE EXISTING BUILDING. THE FOUNDATION SYSTEM IS SUPPORTED BY DRILLED PIERS ALONG THE EDGE OF THE BUILDING. DUR FIELD REPRESENTATIVE WAS INFORMED BY RON CARPENTER WITH REID BURTON CONSTRUCTION THE ON SITE GRAVELS AND SAND WILL BE USED FOR THE FIRST LIFT OF BACKFILL ON THE INTERIOR OF THE FOUNDATION WALL TO HELP BRIDGE IT. TEST #64 INDICATES THE COMPACTION OF SOILS PRIOR TO PLACING FILL. NO. RETEST IS NECESSARY.

] IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(S)

60:::63

[] IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(S)

64.

AND SHOULD BE REWORKED

SCOPE OF OBSERVATION: : FULL TIME: X | PERIODIC, ON CALL BASIS; X | CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED RON CARPENTER W/

REID BURTON

CTL THOMPSON, INC.



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE, DENVER, CO 80204 (303) 825-0777

CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 3-11-86	· Serge co	JOB. NO.	1253	32	115 100 100 100 100		
REPORT NO.	22		. SHEET1	OF		1	
CUD IFOT							

PEPSI COLA, SPORTS FACILITY
3801 BRIGHTON BOULEVARD
FOUNDATION WALL BACKFILL

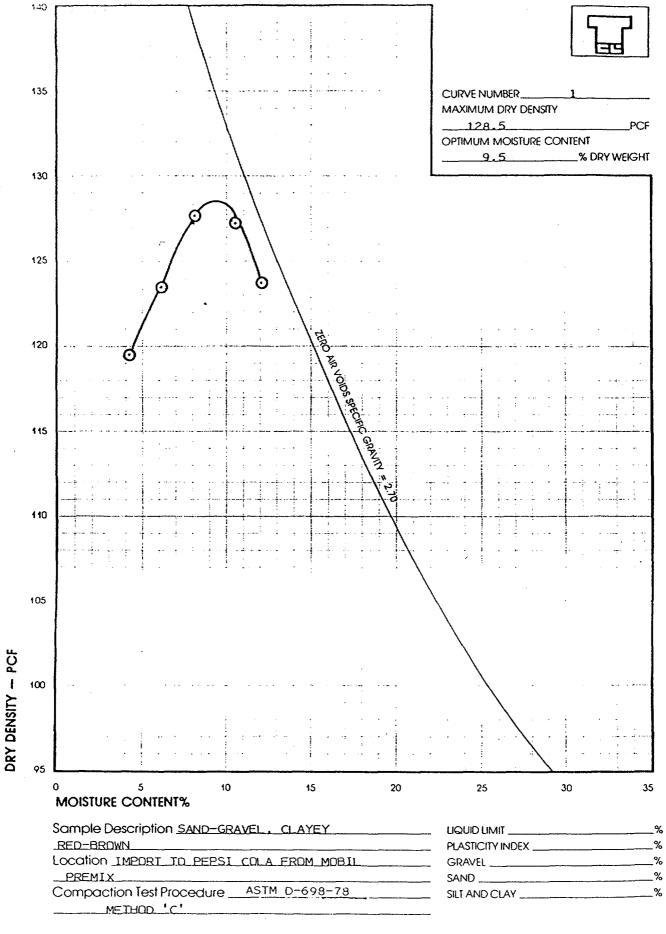
GYMNASIUM

		1		LABOR	ATORY		FIELD		<u> </u>
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION	SOIL TYPE
	INTERIOR 8 N.W. OF							**	CURVE #1
65	S. CORNER	0.0	NUC	128.5	9.5	128	6.3	100	JOB #12167
	INTERIOR, 40'N.W. OF								CURVE #2
66	S. CORNER	0.0	NUC	126.5	10.0	115	6.7	91	JOB #11870
	EXTERIOR, 35 N.W. OF								
67	S. CORNER	0.0	NUC	126.5	10.0	123	7.8	97	11
	EXTERIOR, 50 N.W. OF							**	CURVE. #1
68	S. CORNER	0.0	NUC	128.5	9.5	128	7.4	100	J0B #12167
	EXTERIOR, 15 N.W. OF	_		l i					CURVE #2
69	S. CORNER	1.0	NUC	126.5	10.0	122	8.0	96	JOB #11870
66A	RETEST OF #66		NUC	126.5	10.0	122	8.5	96	, ,
		-							
*	BELOW GRADE								

I DELUW GRADE		ļ		<u> </u>	l	<u> </u>			
** 98	ASTM D	698							
SPECIFICATIONS: 95 % OF MAXIMUM MOISTURE WITHIN ± 3 TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (1) TAMPER (1) DRUM ROLLEF MOISTURE ADDED BY (1) WATER HOSE THICKNESS OF LIFT 6-8 TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS (1) BACKHOE	:% OF O	PTIMUM RY)	OF FIL UPON MOIST OBSER TEST D	L PLACEMEN THE CONTRA TURE TO ACHI EVER IS NOT P	T, AS WELL AS ACTOR TO AI IEVE SPECIFIE PRESENT, AND	S THE TESTS S PPLY THE NEC ED COMPAC O AT LOCATIO	HOWN AB CESSARY C TION DUR DNS OTHER	OVE. WE HAN COMPACTIVE FING TIMES V THAN THOS	EFFORT AND VHEN OUR
PROGRESS REPORT AS REQUESTED TO PERFORM COMPACTION TEST INTERIOR AND EXTERIOR OF T	S ON FOUND	MOITAC	WALL	BACKF)	(LL BE)	ING PLA	ACED (DN BOTH	H THE
		ent come source a quarter for							
K) IN OUR OPINION, FILL COMPACTION MEETS SPECIFI	CATIONS AS INDICA	ATED BY O	JR OBSERVA	TIONS AND 1	(S).ON TRAI	65	, 6.7,	68, 69	66A
IN OUR OPINION, FILL COMPACTION DOES NOT ME AND SHOULD BE REWORKED	ET SPECIFICATIONS	AS INDICA	ATED BY OUR	OBSERVATIO	ONS AND TE	(2).ON T			,
SCOPE OF OBSERVATION: [7] FULL TIME: XI PERIOD	IC, ON CALL BASIS;	ПХСОИ	TRACTOR'S	OR CLIENT'S	REPRESENTA	ATIVE ADVIS	ED RON	CARPE	NTER W/

CTL: THOMPSON, INC.

REID BURTON



Compaction Test Results



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE., DENVER, CO 80204 (303) 825-0777

CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 3-20-	-86 J	OB. NO. 125	32
REPORT NO	23	SHEET	1 0 1
SUBJECT			

PEPSI COLA SPORTS FACILITY 3801 BRIGHTON BOULEVARD FLOOR SLAB SUBGRADE PREPARATION

				LABOR	RATORY	T	FIELD		
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF **	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
70	E. END OF PAD (N. SIDE OF EXISTING BLDG.)	0.5	SAND	133	8.5	133	7.7	100	ROAD BASE
71	W. END OF PAD (N. SIDE OF EXISTING BLDG.)	0.5	SAND	133	8.5	130	7.9	97	11
*	BELOW GRADE ESTIMATED BY A ONE-POINT								

SPECIFICATIONS: 95 % OF MAXIMUM ASTM D 1557 MOISTURE WITHIN + 2 % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (1) TAMPER	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATIO OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE, WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AN MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEE					
MOISTURE ADDED BY (1) WATER HOSE	SPECIFICATIONS.					
THICKNESS OF LIFTINCHES						
TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:						
(1) FRONT END LOADER						
X IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR X IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR X IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR X IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR X IN OUR OPINION. X IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR X IN OUR OPINION. X IN OUR OPINION. X IN OUR OPINION FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR X IN OUR OPINION. X IN OUR	OBSERVATIONS AND TEST NO.(S) 70					
IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATE AND SHOULD BE REWORKED						
SCOPE OF OBSERVATION: \Box FULL TIME; χ \Box Periodic, on Call Basis; $\overline{\chi}$ Contradictions	ACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED					

CTL/THOMPSON, INC.



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE. DENVER, CO 80204 (303) 825-0777

CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE:	3-26-86	JOB. NO	12	532	******	
REPORT NO		24	SHEET 1	OF	1.	
UBJECT						

PEPSI COLA SPORTS FACILITY 3801 BRIGHTON BOULEVARD FOUNDATION WALL BACKFILL AND UNDER SLAB FILL

			Γ	LABOR	RATORY	T	FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	(FOUNDATION WALL BACKFILL)	•							
_72	EXTERIOR COLUMN LINE	3.0	NUC	130	7.5	124	9.1	95	CURVE #1 JOB #11870
_73	INTERIOR COLUMN LINE	2.0	NUC	130	7.5	123	8.5	95	.11 11
74	EXTERIOR COLUMN LINE	1.5	NUC	130	7.5	126	9.1	97	11 11
	TRUCK RAMP NORTH OF WAREHOUSE:								
75	25'N, 35'E FROM EAST ENTRANCE	0.0	NUC	** 132	7.5	127	5.4	96	SAND. GRAVEL
76_	28'N, 45'E FROM EAST ENTRANCE	0.0	NUC	** 132	7.5	126	3.9	95	11 11
*	BELOW GRADE								

BELUW GRADE							
** ESTIMATED BY A ONE-POINT							
SPECIFICATIONS: 95 % OF MAXIMUM ASTM D 1557	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION						
MOISTURE WITHIN # 3 % OF OPTIMUM	OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE, WE HAVE RELIED						
TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS:	UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR						
(2) WHACKER TAMPERS	OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS						
(1) VIBRATORY PLATE							
MOISTURE ADDED BY (1) WATER HOSE	SPECIFICATIONS.						
THICKNESS OF LIFT 4-12 INCHES							
TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:							
(1) LOADER							
SPORTS FACILITY AND THE FILL PLACED FOR THE WAREHOUSE.	Continues to the Continue of t						
	and a supplied the control of the co						
	Comment of the Commen						
() IN OUR OPÍNION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OL	JR OBSERVATIONS AND TEST NO.(S) 72-76						
IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICA AND SHOULD BE REWORKED	JED BY OUR OBSERVATIONS AND TEST NO.(S)						
COPE OF OBSERVATION: 13 FULL TIME; 💢 PERIODIC, ON CALL BASIS; 💥 CONT	TRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED RON: REID BURTO						

CTL/THOMPSON, INC.

DELMAR FISCHER

APPROVED BY

RONALD M. MC OMBER, P.E.

CONSTRUCTION



~	ICA	IT

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 3-27	-86 JOB. NO.	1253	32
REPORT NO.	25	SHEET1. OF	1
SUBJECT			

PEPSI COLA SPORTS FACILITY 3801 BRIGHTON BLVD. FOUNDATION WALL BACKFILL

THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION

			<u> </u>	LABORATORY		FIELD			
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	INTERIOR COLUMN LINE								CURVE #1
77	C.5-1	0.0	NUC	130	7.5	125	6.8	97	JOB #11870
	EXTERIOR COLUMN LINE								
78	C.5-1	1.5	NUC	130	7.5	123	8.1	95	11
	INTERIOR COLUMN LINE								
79	D.3-1	0.0	NUC	130	7.5	123	7.4	95	11
								ļ	
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		1							and the state of t
<u></u>			<u> </u>					 	
*		_							
*	BELOW GRADE			L	<u> </u>				<u> </u>

MOISTURE WITHIN	UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS
MOISTURE ADDED BY (1) WATER HOSE	SPECIFICATIONS.
HICKNESS OF LIFT 12 INCHES	
YPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:	
*ROGRESS REPORT THE CONTRACTOR CONTINUES TO ALONG COLUMN LINE 1 BETWEEN C AND E LINES	
₹ IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY C	DUR OBSERVATIQNS AND TEST NO.(S) 77-79
∃ IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDIC AND SHOULD BE REWORKED	ATED BY OUR OBSERVATIONS AND TEST NO.(S)
ICOPE OF OBSERVATION: 📋 FULL TIME; 💢 PERIODIC, ON CALL BASIS; 💢 COI	NTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED DARREL: REID

ASTM D 1557

CTL/THOMPSON, INC.

DELMAR FISCHER

95 % OF MAXIMUM_

APPROVED BY

RONALD M. MC OMBER, P.E.

BURTON CONSTRUCTION

IELD REPRESENTATIVE



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE., DENVER, CO 80204 (303) 825-0777

CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DEL FISCHER

DF:DM

DATE: 3-3	1-86	OB. NO	12532	MANUTE AND TO ANY THE PROPERTY OF THE PROPERTY AND A STATE OF THE PROPERTY OF
				Of
CLEDICCT				

PEPSI COLA SPORTS FACILITY 3801 BRIGHTON BOULEVARD FOUNDATION WALL BACKFILL

				LABORATORY FIELD					
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	GRID LINE B.7-9								
80	INTERIOR	0.0	NUC	126.5	10.0	121	5.3	96	CURVE #2
	GRID LINE C.5-1								-
81	EXTERIOR	0.0	NUC	130	7.5	128	5.1	98	CURVE #1
	GRID LINE G-10.5								
82	INTERIOR	0.0	NUC	130	7.5	124	7.3	95	1 1
	GRID LINE G-10.5							[
83 .	EXTERIOR	0.0	NUC	130	7.5	123	5.7	95	1 1
	GRID LINE E.2-12								
84	INTERIOR	2.7	NUC	130	7.5	124	8.8	95	1 1
	GRID LINE E.2-12								
85	EXTERIOR	2.7	NUC	130	7.5	123	91	95	1 1
						1			
	*BELOW GRADE								

SPECIFICATIONS: 95 % OF MAXIMUM ASTM D 1557 MOISTURE WITHIN ± 3 % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS:	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS					
MOISTURE ADDED BY	SPECIFICATIONS.					
THICKNESS OF LIFTINCHES						
PPE OF EARTH MOMING EQUIPMENT AND NO. OF UNITS:						
X IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR						
IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATE AND SHOULD BE REWORKED	ED BY OUR OBSERVATIONS AND TEST NO.(S)					
SCOPE OF OBSERVATION: 🗇 FULL TIME; 💢 PERIODIC, ON CALL BASIS; 💢 CONTR	RACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED RON (REID BURTON)					

CTL/THOMPSON, INC.

RONALD M. MC OMBER, P. E.

APPROVED BY



CLIENT: PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE 4-7-86	JOB. NO.	12532	
REPORT NO	27	SHEET 1 OF	1
SUBJECT			
DEDCT (C 4 CDCDTC	EACH TTV	

PEPSI COLA SPORTS FACILITY 3801 BRIGHTON BOULEVARD FOUNDATION WALL BACKFILL

<u> </u>				LABOR	ATORY		FIELD			
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	sc	DIL TYPE
86	GRID LINE C-8.5	5.0	NUC	130	7.5	125	10.3	96		VE #1 #11870
87	GRID LINE B.7-8.5	10.5	NUC	130	7.5	123	10.3	95		* *
88	GRID LINE B.7-7.3	10.5	NUC	130	7.5	124	10.5	95	1 1	* *
89	GRID LINE B.7-8.5	7.0	NUC	130	7.5	128	8.5	98	11	1 1
90	GRID LINE B.7-7.4	7.0	NUC	130	7.5	129	9.0	99	11	11
91	GRID LINE C-8.6	2.5	NUC	130	7.5	129_	9.9	99	11	1 1
 						, , , , , , , , , , , , , , , , , , ,				
*	BELOW GRADE									

			,		
SPECIFICATIONS:	95% OF	MAXIMUM	ASTM D	<u>155</u> 7	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION
MOIS	STURE WITHIN	<u>+ 3</u>	% OF OF	PTIMUM	OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE, WE HAVE RELIED
TYPE OF COMPACTION E	QUIPMENT AND NO	OF UNITS:			UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR
(2) WHACKER	TAMPERS				OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED.
(1) CAT 815	SHEEPSF00	T_ROLLER	.		TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS
MOISTURE ADDED BY	NATU	RAL			SPECIFICATIONS.
THICKNESS OF LIFT	12		·	INCHES	
TYPE OF EARTH MOVING E	EQUIPMENT AND N	D. OF UNITS:			
(1) FRONT LC	DADER				
WEST BASEMEN OBSERVATION BY THE 'WHA MATERIAL TO APPROXIMATEL IS BEING BAC IN OUR OPINION, FILL	IT FOUNDAT INDICATED ACKER TAM NEAR THE Y 4 FEET KEILLED A COMPACTION ME	ION WALL A ZONE PERS AN BOTTOM D EROM THE ND COMPA	RON (DE UNCOI D THE SH E THE W WALL AN CTED WIT	CARPEN MPACTE MEEPSE ALL AN ND EXT TH THE	CTOR WAS BACKFILLING ALONG THE NORTH TER WAS INFORMED OUR FILL PLACEMENT D FILL OCCURING BETWEEN THE AREA WORKED OOT ROLLER. RON WAS ADVISED TO REMOVE THIS D RECOMPACT. THIS ZONE IS LOCATED ENDS ACROSS THE TEMPORARY RAMP WHICH SHEEPSEOOT ROLLER. ROBSERVATIONS AND TEST NO.(S) 86-9-1. ED BY OUR OBSERVATIONS AND TEST NO.(S)
SCOPE OF OBSERVATION	: () FULL TIME;	X PERIODIC, O	N CALL BASIS;	X CONTI	RACTOR'S OR CLIENT'S REPRESENTATIVE ADVISEDRON/REID - BURTON

CTL/THOMPSON, INC.

RONALD M. MC OMBER, P.E.

APPROVED BY

FIELD REPRESENTATIVE

DELMAR FISCHER



CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 4-8-86	JOB. NO)	12532	
REPORT NO	28	SHEET	. 1. OF	2.
CHR IECT				

PEPSI COLA SPORTS FACILITY 3801 BRIGHTON BOULEVARD FOUNDATION WALL BACKFILL

				LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
				**					SAND-GRAVEL
92	GRID LINE B.6-8.2	4.5	NUC	117.0	13.5	113	17.1	97	V. CLAYEY
			1	**			}	1	
93	GRID LINE B.6-8.5	4.5	NUC	117.0	13.5	115	16.0	98	11 11
94	GRID LINE B.6-6.9	4.5	NIIC	128.5	9.5	126	9.7	98	CURVE #1 JOB #12167
-	3.113 21.112 310 313	1.0	1,00	**	2.5	120	3.1	1 30	SAND-GRAVEL
95	GRID LINE B.8-8.6	4.5	NUC	117.0	13.5	116	15.8	99	V. CLAYEY
92A	RETEST OF #92		NUC	** 117.0	13.5	115	16.2	98_	11 11
*	BELOW GRADE							 	
**	ESTIMATED BY A ONE-POINT						<u> </u>	<u> </u>	

SPECIFIC	CATION:	s: <u>9</u> 8	3	% OF M	AXIMUM	ASTM D 698
		МО	ISTURE WIT	HIN	+ 3	% OF OPTIMUM
				TAND NO. O		
MOISTU	RE ADDE	D BY		NATURA	AL_	
HICKNE	SS OF LI	FT		12		INCHES
	EARTH N	-	EGUIPME	NT AND NO.	OF UNITS:	

THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS SPECIFICATIONS.

ROGR	ESS REPORT THE CONTRACTOR CONTINUES TO BACKFILL THE NORTH WEST BASEMENT WALL.
RON	CARPENTER INDICATED THE REMOVAL AND RECOMPACTION OF FILL AS SUGGESTED IN REPORT
#27	WAS COMPLETED. THE FILL WAS REMOVED WITH A BACKHOE AND THE SHEEPSEOOT ROLLER
WAS	USED TO BACKFILL AND COMPACT THIS AREA. TEST #95 WAS PERFORMED IN THIS AREA.
RON	MC OMBER FROM OUR OFFICE, OBSERVED THE AREAS OF HAIRLINE CRACKS IN THE SLAB ALONG
THE	SOUTH WEST WALL OF THE BASEMENT. DURING OUR OBSERVATIONS AND DISCUSSION WITH
RON	CARPENTER IT WAS SUGGESTED SETTLEMENT MAY BE DUE TO EXCESSIVE WETTING OF THE CONT.

IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(5)

AND SHOULD BE REWORKED

COPE OF OBSERVATION: 🗍 FULL TIME: [XPERIODIC, ON CALL BASIS; [X CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED

RON/REID BURTON

	CTL/THOMPSON, INC.					
DELMAR FISCHER						
ELD REPRESENTATI√€	APPROVED BY	RONALD	Μ.	MC	OMBER,	P.E.



CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 4-8-86 REPORT NO			
SUBJECT			
PEPSI (COLA SPORTS	FACILITY	

PEPSI COLA SPORTS FACILITY 3801 BRIGHTON BOULEVARD FOUNDATION WALL BACKFILL

TEST				LABOR	RATORY		FIELD		
NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
									and the stage of t
ŀ									
75 OF C(OMPACTION EQUIPMENT AND NO. OF UNITS:							מו וכו ואכונד	OMPACTIVE EFFORT AND
				MOISTI OBSER ^A TEST DA	URE TO ACHI VER IS NOT P	IEVE SPECIFIE PRESENT, AND	AT LOCATIO	ONS OTHER	ING TIMES WHEN OUR R THAN THOSE TESTED. I WHETHER THE FILL MEETS
OISTURE A	ADDED BY			MOISTI OBSER ^A TEST DA	URE TO ACHI VER IS NOT P NTA ARE NOT	IEVE SPECIFIE PRESENT, AND	AT LOCATIO	ONS OTHER	ING TIMES WHEN OUR THAN THOSE TESTED.
OISTURE /	ADDED BY			MOISTI OBSER ^A TEST DA	URE TO ACHI VER IS NOT P NTA ARE NOT	IEVE SPECIFIE PRESENT, AND	AT LOCATIO	ONS OTHER	ING TIMES WHEN OUR THAN THOSE TESTED.
OISTURE A ICKNESS PE OF EA OGRESS COMPA ADD I THE N IRACK	ADDED BY	OM THE PACTED SHT OF D APPA D FURT	PREV FOUN SITE RENTL HER A	MOISTI OBSER TEST DA SPECIFI IOUS S DATION CAST Y SETT FTER T	URE TO ACHIVER IS NOT PATA ARE	IEVE SPECIFIE PRESENT, AND THE SOLE BA LAZON BACKELS JT_NO_S L_PANE	E BETW LL	DISCOTHER NIONS ON FEEN THE SL FILL S. PRE	THE MACHINE ADJACENT THE SENT ADDITIO
DISTURE A CKNESS PE OF EA COGRESS COMPA DDIT HE N RACK L FI	ADDED BY OF LIFT WITH MOVING EQUIPMENT AND NO. OF UNITS: REPORT BACKFILL SOILS FRI ACTED FILL AND THE HAND COMMITS TONAL LOADING FROM THE WEIGH BORTHEAST BASEMENT HAD ALSO ED SLAB SHOULD BE EVALUATED LL MAY BE REQUIRED ALONG THE OPINION FILL COMPACTION MEETS SPECIFICATIONS	DM THE PACTED SHT OF D APPA D FURT HE NOR	PREV FOUN SITE RENTL HER A	MOISTI OBSERVATION TEST DA SPECIFI LOUS S DATION CAST Y SETT T WALL	URE TO ACHIVER IS NOT PATA ARE NOT ICATIONS. NOW IN WALL BURNEL WALL BURNEL BU	I A ZON BACKFI PANELS T NO S L PANE T PO	E BETW LL . 1 BACK LAB WA LS ARE	NESOTHER NIONS ON NEST SELL SELL SEL REMO	THE MACHINE AB ALSO HAD ADJACENT THE
OISTURE OF EACH OGRESS OMPADITHE NERACK	ADDED BY OF LIFT INTH MOVING EQUIPMENT AND NO. OF UNITS: REPORT BACKFILL SOILS FROM CTED FILL AND THE HAND COMM TONAL LOADING FROM THE WEIGH IORTHEAST BASEMENT HAD ALSO ED SLAB SHOULD BE EVALUATED LL MAY BE REQUIRED ALONG THE	DM THE PACTED SHT OF D APPA D FURT HE NOR	PREV FOUN SITE RENTL HER A	MOISTI OBSERVATION TEST DA SPECIFI LOUS S DATION CAST Y SETT T WALL	URE TO ACHIVER IS NOT PATA ARE NOT ICATIONS. NOW IN WALL BURNEL WALL BURNEL BU	I A ZON BACKFI PANELS T NO S L PANE T PO	E BETW LL . 1 BACK LAB WA LS ARE	NESOTHER NIONS ON NEST SELL SELL SEL REMO	THE MACHINE AB ALSO HAD ADJACENT THE

CTUTHOMPSON, INC.

RONALD M. MC OMBER, P.E.

APPROVED BY

DELMAR FISCHER

IELD REPRESENTATIVE

DF:Py



CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 7-29-86	JOB. NO.	12532	Francisco de participation de la compansa del compansa de la compa
REPORT NO.	29	SHEET 1 OF	
SUBJECT			
PEPSI CO	LA SPORTS	S FACTLITY	

PEPSI COLA SPORTS FACILITY
3801 BRIGHTON BOULEVARD
SANITARY SEWER TRENCH BACKFILL

	LOCATION			LABORATORY			FIELD		
TEST NO.		DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	SEWER TRENCH 80'WEST								SAND, GRAVEL
96	OF WAREHOUSE WALL	5.0	NUC	128.5	9.5	113	9.5	89	SL. CLAYEY
	SEWER TRENCH, 50'WEST	_]			ŀ		AND THE RESIDENCE AND THE STATE OF THE STATE
97	OF WAREHOUSE WALL	5.0	NUC	128.5	9.5	114	6.0	89	17 11
		-	SAND	128.5	9.5	118	5.6	92	11 11
									needland translation and the same of the same
			·						
									William and the second
*	BELOW_GRADE					·			
**	ESTIMATED BY A ONE-POINT	1	I	ŀ		1	1		

SPECIFICATIONS: 95 % OF MAXIMUM ASTM D 1557	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE, WE HAVE RELIED
MOISTURE WITHIN <u>+</u> 3. % OF OPTIMUM	UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND
TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS:	MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR
(1) VIBRATORY ROLLER	OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS
MOISTURE ADDED BY (1)HOSE	SPECIFICATIONS.
THICKNESS OF LIFT INCHES .	
TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:	•
(1) FRONT END LOADER	
COMPACTION SPECIFICATIONS.	•
Control of the Contro	The second secon
and the second s	(x,y) = (x,y) + (x,y
<u> </u>	
[1] IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR	OBSERVATIONS AND TEST NO.(S)
K) IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATE AND SHOULD BE REWORKED	D BY OUR OBSERVATIONS AND TEST NO.(S) 1, 2
SCOPE OF OBSERVATION: \Box FULL TIME; $\ddot{\chi}$ PERIODIC, ON CALL BASIS; $\ddot{\chi}$ CONTR	ACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED RON/BURTON
	ACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED ROIN/ BOR TOTAL

CTL/THOMPSON, INC.



\sim	ıc	٨	ı۲

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 7-3	80-86	JOB. NO.	12532) 	Commence the same of the parameters of the param
REPORT NO		0	SHEET 1	OF	1
SUBJECT			•		

PEPSI COLA SPORTS FACILITY 3801 BRIGHTON BOULEVARD SANITARY SEWER TRENCH BACKFILL

			<u> </u>	LABO	RATORY	<u> </u>	FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF **	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
97A	RETEST OF #97	5.0	NUC	128	9.5	115	6.8	90	SAND, GRAVELLY
	60'WEST OF WAREHOUSE								OIN DILL
98	WALL	5.0	NUC	128	9.5	113	5.6	88	1 1 1 1 1
									to to the first space of the second to the second
96A	RETEST OF #96		NUC	128	9.5	112	8.6	88	11 11
	30'WEST OF OUTSIDE		Ì						rat. Bropath Ballyabert a passingers. Salves passinger blassfers, select as the labels
99	WAREHOUSE WALL	3.5	NUC	128	9.5	120	10.4	94	11 11
	75'WEST OF OUTSIDE								
100	WAREHOUSE WALL	4.5	NUC	128	9.5	115	10.4	90	11 11
	125'WEST OF OUTSIDE								
101	WAREHOUSE WALL	6.0	NUC_	128	9.5	116	10.4	91	11 11
	ADJACENT TO					İ			particularity designation of the control of the con
102	MANHOLE	5.0	NUC	128	9.5	123	9.1	96	11 11
	INSIDE WAREHOUSE; 30'E								
103	OF INSIDE WALL	3.5	NUC	128	9.5	127	10.5	100	11 11

1.03 1 DE 1NSTDE WALL1.3.5 1NOC 1	128 19.5 1.127 110	.5 1 1001	
* BELOW GRADE ** ESTIMATED BY A ONE-F	POINT		
SPECIFICATIONS: 95 % OF MAXIMUM ASTM D 1557 MOISTURE WITHIN ± 3 % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (1) VIBRATORY ROLLER (1) VIBRATORY TAMPER ON LOADER MOISTURE ADDED BY (1) HOSE THICKNESS OF LIFT 6-12 INCHES TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:	THIS REPORT PRESENTS OPINIONS FO OF FILL PLACEMENT, AS WELL AS THE UPON THE CONTRACTOR TO APPLY T MOISTURE TO ACHIEVE SPECIFIED CO OBSERVER IS NOT PRESENT, AND AT LO TEST DATA ARE NOT THE SOLE BASIS FO SPECIFICATIONS.	TESTS SHOWN ABOVE. WE HAVE RE THE NECESSARY COMPACTIVE EFFO OMPACTION DURING TIMES WHEN OCATIONS OTHER THAN THOSE TES	ELIED ORT AND NOUR STED.
(2) LOADERS PROGRESS REPORT FILL WAS OBSERVED DURING COMPACING REPORT FILL WAS OBSERVED DURING COMPACING REPORT OF THE PROGRESS REPORT O	IFJS.		
and the second of the second o			
[] IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR	: OBSERVATIONS AND TEST NO.(\$)	102, 103	

X) IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(5) 99., 9.7A, 98., 96A,

SCOPE OF OBSERVATION: 📋 FULL TIME; XI PERIODIC, ON CALL BASIS; XI CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED RON/REID BURTON

CTL/THOMPSON, INC.

AND SHOULD BE REWORKED

100 AND 101



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE , DENVER, CO 80204 (303) 825-0777

CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 7-31-86	JO8. NO	12532		
REPORT NO		SHEET 1. OF	. 1	
SUBJECT				

PEPSI COLA SPORTS FACILITY 3801 BRIGHTON BOULEVARD SANITARY SEWER TRENCH BACKFILL

				LABO	RATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF **	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
96B	RETEST OF #96 A		NUC	128	9.5	117	9.3	91	SAND, GRAVELLY
97B	RETEST OF #97 A		NUC_	128	9.5	121	5.1	95	11 11
98A	RETEST OF #98		NUC	128	9.5	122_	5.0	95	13 13
100A	RETEST OF #100		NUC_	128	9.5	124_	6.2	97	11 11
101A	RETEST OF #1.01		NUC	128	9.5	122	5.6	95	11 11
								1	
						,			- page 11500 1 10 magazin agrania ya Magazin
*	BELOW GRADE ESTIMATED BY A ONE-POINT								

SPECIFICATIONS: 95 % OF MAXIMUM ASTM_D_1557 MOISTURE WITHIN ± 3 % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (1) VIBRATORY ROLLER (1) LOADER W/VIBRATORY TAMPER MOISTURE ADDED BY (1) HOSE THICKNESS OF LIFT 6=12 INCHES TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: (2) FRONT-END LOADERS	THIS REPORT PRESENTS OPINIONS FOR OF FILL PLACEMENT, AS WELL AS THE TE UPON THE CONTRACTOR TO APPLY TH MOISTURE TO ACHIEVE SPECIFIED CON OBSERVER IS NOT PRESENT, AND AT LOT TEST DATA ARE NOT THE SOLE BASIS FOI SPECIFICATIONS.	STS SHOWN ABO E NECESSARY C MPACTION DURI CATIONS OTHER	OVE. WE HAV OMPACTIVE ING TIMES W THAN THOS	'E RELIED EFFORT AND I'HEN OUR E TESTED.
PROGRESS REPORT THE CONTRACTOR INCREASED COMPAC	TION EFFORT THROUGHO	UT TRENC	H	
and the contract of the second specific of the second seco				
Approximation of the contraction		•		
and the second s				
I IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR CALL IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED AND SHOULD BE REWORKED		B, 98A,	100A, 96B	101A
SCOPE OF OBSERVATION: (1) FULL TIME; X) PERIODIC, ON CALL BASIS; X1 CONTRA	CTOR'S OR CLIENT'S REPRESENTATIVE A	DVISED RC	ON W/RE	ID

CTL/THOMPSON, INC.

BURTON



CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 8-1-86	JOB. NO.	12532	of the American street a continuous
REPORT NO.	32	SHEET 1 OF	1
SUBJECT			

PEPSI COLA SPORTS FACILITY 3801 BRIGHTON BOULEVARD SANITARY SEWER TRENCH BACKFILL

			1	LABOI	LABORATORY		FIELD	7		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF **	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYP	PE
		-							SAND,	
<u>96C</u>	RETEST OF #96		NUC.	128	9.5	121_	5.7	95	_GRAVELI	_Y
99A	RETEST OF #99		NUC	128	9.5	122	3.1	95	11 1)
104	50'WEST OF OUTSIDE	, ,	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	100			, ,	95	,, ,	1
104	WAREHOUSE WALL	2.5	NUC_	128	9.5	121	3.9	95		
105	120'WEST OF OUTSIDE WAREHOUSE WALL	4.0	NUC	128	9.5	120	5.3	94	11 1	1
106	INSIDE TRENCH; 6'EAST OF OUTSIDE WALL	1.0	NUC	128	9.5	120	5.4	94	11 1	1
107	INSIDE TRENCH 20 EAST		NUC	128	9.5	123	7.0	95	11 1	,
*	BELOW GRADE									
**	ESTIMATED BY A ONE-POINT	<u> </u>	1							

YPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (1) VIBRATORY ROLLER (1) LOADER W/JAMPER	UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS						
VOISTURE ADDED BY (1) HOSE	SPECIFICATIONS.						
HICKNESS OF LIFT 6-12 INCHES							
YPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:	•						
(2) FRONT END LOADERS							
NO RETESTS ARE NECESSARY. THE CONTRACTOR FILL FROM MOBILE PREMIX WOULD BE USED FOR BACKFILL ON MONDAY, AUGUST 3RD.	RECOMPACT THE AREAS OF TESTS #105 AND 106, R ADVISED OUR REPRESENTATIVE THAT IMPORTED R SEWER TRENCH BACKFILL, AND WOULD BEGIN						
and the second second distriction of the following second	and the second s						
	and the second s						
() IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY C IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDIC AND SHOULD BE REWORKED	OUR OBSERVATIONS AND TEST NO.(S) 96C, 99A, 104-107 CATED BY OUR OBSERVATIONS AND TEST NO.(S)						
SCOPE OF OBSERVATION: :] FULL TIME; X: PERIODIC, ON CALL BASIS; X) CO	NTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED RON W/REID. BURTON						

CTL/THOMPSON, INC.

IAN SPLATT

SPECIFICATIONS: 95 % OF MAXIMUM ASTM D 1557

APPROVED BY

RONALD M. MC OMBER, P.E.

THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION

OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE., DENVER, CO 80204 (303) 825-0777

CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 8-4-86	JOB. NO	125	32	
REPORT NO.	33	SHEET1	OF	1
SUBJECT				

PEPSI COLA SPORTS FACILITY 3801 BRIGHTON BOULEVARD SANITARY SEWER TRENCH BACKFILL

				LABO	RATORY		FIELD			
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF **	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	sc	OIL TYPE
	80'W OF OUTSIDE WALL OF								SAND.	GRAVEL
108	DELIVERY BUILDING	0.0	NUC	128	9.5	122	4.8	95	SL. C	LAYEY _
	8'W OF OUTSIDE WALL OF									
109	DELIVERY BUILDING	0.0	NUC	128	9.5	125	6.0	98	,,	11
	120'W OF OUTSIDE WALL OF	.]	l	j)				
110	DELIVERY BUILDING	4.0	NUC	128	9.5	122	4.3	95	11	11
	100'W OF OUTSIDE WALL OF					1	İ			
111	DELIVERY BUILDING	3.5	NUC	128	9.5	124	9.1	98	• •	11
	200'W OF OUTSIDE WALL OF]	į		1	1				
112	DELIVERY BUILDING	5.5	NUC	128	9.5	121	5.4	95	11	11
	25'W OF OUTSIDE WALL OF					1		1		
113	DELIVERY BUILDING	3.5	NUC	128	9.5	121	6.4	95	11	11
	SLAB ON GRADE AT									
114	STA. C-6	0.0	NUC	128	9.5	123	5.7	97	11	11
*	BELOW GRADE	L !			1			Í		
**	ESTIMATED BY A ONE-POINT		•							

114	STA. C-6	0.0	NUC	128	9.5	123	5.7	97	11	11
*	BELOW GRADE	-								
**	ESTIMATED BY A ONE-POINT	 	<u> </u>	L	ł		l	L	L	
SPECIFIC		STM D	1557	THIS RE	EPORT PRESE	NTS OPINIOI	NS FORMED	AS A RESU	LT OF OUR	OBSERVATION
	MOISTURE WITHIN ± 3	% OF O	PTIMUM		L PLACEMEN					
	COMPACTION EQUIPMENT AND NO. OF UNITS: VIBRATORY ROLLER			MOIST	URE TO ACH	EVE SPECIFI	D COMPAC	CTION DUR	ING TIME	VE EFFORT AND SWHEN OUR
	BACKHOE WITH TAMPER PLATE				IVER IS NOT P ATA ARE NOT					JSE TESTED. RTHE FILL MEETS
MOISTURE	ADDED BY (1) HOSE			SPECIF	ICATIONS.					
	£ 12		INCHES				I			
	ARTH MOVING EQUIPMENT AND NO. OF UNITS: FRONT END LOADERS									
WAS A	SREPORT THE CONTRACTOR CONT ADVISED TO INCREASE WATER CO	ONTENT	OF TO	HE TRE	NCH BA	CKFILL				
		ACTION OF STREET AND ACTION OF STREET	Administration of the state of		of the order					
X IN OU	R OPINION, FILL COMPACTION MEETS SPECIFICATION:	S AS INDICA	ATED BY OU	IR OBSERVA	TIONS AND 1	rest NO.(\$)		08-11	4	
	R OPINION, FILL COMPACTION DOES NOT MEET SPECI SHOULD BE REWORKED	FICATIONS	AS INDICA	TED BY OUR	OBSERVATIO	ONS AND TE	(2).ON T			
SCOPE O	FOBSERVATION: [] FULL TIME; [X PERIODIC, ON C	CALL BASIS;	Ø CONI	TRACTOR'S	OR CLIENT'S	REPRESENTA	ATIVE ADVIS	ED R		REID TON
				CTL/THOM	PSON INC.					

FIELD REPRESENTATIVE

IAN SPLATT

APPROVED BY

RONALD M. MC OMBER, P.E.



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE., DENVER, CO 80204 (303) 825-0777

CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 8-5-86	JOB. NO	12	2532	
REPORT NO	34	SHEET_1_	OF	1
CLID IF CT				

PEPSI COLA SPORTS FACILITY 3801 BRIGHTON BLVD. SANITARY SEWER TRENCH BACKFILL

			<u> </u>	LABO	RATORY	T	FIELD				1
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	omc %	DRY DENSITY PCF	MC %	COM- PACTION %		IL TYPE	
	10'W OF OUTSIDE									GRAVEL	LY
115	DELIVERY WALL	2.0	NUC	128	9.5	121	6.8	95	SL. C DARK	LATET BROWN	
	180'W OF OUTSIDE										
116	DELIVERY WALL	4.0	NUC	128	9.5	121	6.2	95	11	11	
	165'W OF OUTSIDE						}				
117	DELIVERY WALL	2.5	NUC	128	9.5	120	4.9	94	11	11	
	120'W OF OUTSIDE]]]	<u> </u>	j			
118	DELIVERY WALL	2.0	NUC	128.	9.5	121	8.3	95	11	11]
j	100'W OF OUTSIDE	1]				
119	DELIVERY WALL	0.5	NUC	128	9.5	122	8.7	96	11	11	
]	140'W OF OUTSIDE]							
120	DELIVERY WALL	1.0	NUC	128	9.5	121	6.5	95	• •	1 +	1
		_				1					
			L		<u> </u>			ļ	ļ		1
*	BELOW GRADE	.]				ļ]				
**	ESTIMATED BY A ONF-POINT		<u> </u>			<u> </u>	<u> </u>		<u> </u>]

SPECIFICATIONS: 95 % OF MAXIMUM ASTM D 155.7 MOISTURE WITHIN +3 % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (2) VIBRATORY ROLLERS (1) BACKHOE WITH TAMPER PLATE MOISTURE ADDED BY (1) HOSE	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE, WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS SPECIFICATIONS.
THICKNESS OF LIFT 6-12 INCHES	GEOILEANONS.
TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: (2) BACKHOES/FRONT-END_LOADERS	
	RENCH BACKFILL UPERALIUNS.
() IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR	OBSERVATIONS AND TEST NO.(S) 115-120
IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATE AND SHOULD BE REWORKED	ED BY OUR OBSERVATIONS AND TEST NO.(S)
SCOPE OF OBSERVATION: [7] FULL TIME; X] PERIODIC, ON CALL BASIS; [X] CONTR	ACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED RON W/REID BURTON

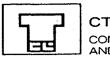
IAN SPLATT

FIELD REPRESENTATIVE

APPROVED BY

CTL/THOMPSON, INC.

RONALD M. MC OMBER, P.E.



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE., DENVER, CO 80204 (303) 825-0777

CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE:	8-6-86	JOB. NO	12	2532	
REPORT NO		35	SHEET1	OF	1
SUBJECT					

PEPSI COLA SFORTS FACILITY 3801 BRIGHTON BLVD. SANITARY SEWER TRENCH BACKFILL

				LABOI	RATORY		FIELD			
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	омс %	DRY DENSITY PCF	MC %	COM- PACTION %	S	OIL TYPE
	160'W OF OUTSIDE								SAND	GRAVE
121	DELIVERY WALL	0.0	NUC	128	9.5	123	8.2	97	DARK	BROWN
	200'W OF DUTSIDE									
122	DELIVERY WALL	0.0	NUC	128	9.5	121	6.1	95	11	11
										· · · · · · · · · · · · · · · · · · ·
					<u>'</u>					
			<u> </u>							
k	DELOW COADE				 	ļ		 		
**	BELOW GRADE ESTIMATED BY A ONE-POINT	-			1					
(2) \ (1) E OISTURE	MOISTURE WITHIN			UPON MOIST OBSER TEST D	THE CONTR URE TO ACH EVER IS NOT F	ACTOR TO AF HEVE SPECIFIE PRESENT, AND	PPLY THE NE ED COMPA AT LOCATI	CESSARY C CTION DUR ONS OTHER	OMPAC ING TIMI THAN TI	HAVE RELIED I'WE EFFORT AN ES WHEN OUR HOSE TESTED. ER THE FILL MEE
(2) F	FRONT END LOADERS SREPORT THE CONTRACTOR WAS HE UPPER PORTION OF THE TRE	ADVISE	:D_TO_		and the state of t					

CTL/THOMPSON, INC.

IAN SPLATT

FIELD REPRESENTATIVE

IS:PV

AND SHOULD BE REWORKED

APPROVED BY

SCOPE OF OBSERVATION: [1] FULL TIME: [1X PERIODIC, ON CALL BASIS; X] CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED ... RON. W/RE ID....

RONALD M. MC OMBER, P.E.

BURTON



CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE:	8-7-86	JO	B. NO	1	2532		· · · · · · · · · · · · · · · · · · ·
REPORT NO.			36	SHEET	_1 _{OF}	11	··
SUBJECT							
	PEPSI	COLA	SPORT	S FA	CILIT	ΓY	

3801 BRIGHTON BOULEVARD SANITARY SEWER TRENCH BACKFILL

				LABO	RATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	EET TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	120'W OF OUTSIDE								SAND, GRAVE
123	DELIVERY WALL	0.0	NUC	128	9.5	122	6.5	96	SL. CLAYEY DARK BROWN
	140'W OF OUTSIDE								
124	DELIVERY WALL	0.0	NUC	128	9.5	121	8.2	95	11 11
	150'W OF OUTSIDE								
125	BELIVERY WALL	0.0	NUC	128	9.5	122	7.0	96	11
		-							
-									
:	BELOW GRADE				t	 		1	
**	ESTIMATED BY A ONE-POINT	-							
PE OF C (2) (1) (OISTURI IICKNES	COMPACTION EQUIPMENT AND NO. OF UNITS: VIBRATORY ROLLERS BACKHOE W/TAMPER E ADDED BY (1) HOSE SOF LIFT 6-12 ARTH MOVING EQUIPMENT AND NO. OF UNITS: FRONT END LOADERS	% OF O	PTIMUM	OF FILI UPON MOIST OBSER TEST D	L PLACEMEN THE CONTR TURE TO ACH EVER IS NOT F	IT, AS WELL AS ACTOR TO A IIEVE SPECIFII PRESENT, AND	STHE TESTS: PPLYTHE NE ED COMPAC O AT LOCATI	SHOWN AB CESSARY C CTION DUR ONS OTHER	LT OF OUR OBSERVATIO OVE, WE HAVE RELIED OMPACTIVE EFFORT AN ING TIMES WHEN OUR R THAN THOSE TESTED. I WHETHER THE FILL MEE
OGRES	FRONT END LOADERS SREPORT CONTRACTOR COMPLETE LETES TESTING ON SEWER TREM		KFILL I			NS ALON			

CTL/THOMPSON, INC.

IAN SPLATT

RONALD M. MC OMBER, P.E.

BURTON

AND SHOULD BE REWORKED

XT IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(5) 123-125 ☐ IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(5)

SCOPE OF OBSERVATION: [] FULL TIME; | XPERIODIC, ON CALL BASIS; X] CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED RON W/ REID



\sim	ICN	IT.

PEPSI COLÁ COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN:	MR.	DON	PATT	TON
→ 1114.	1.4.			

DATE:	9-30-86 _{JC}	DB. NO. 12,532	
REPORT NO	37	SHEET 1 OF	1
SUBJECT			
PEPSI CO	OLA SPORTS	FACILITY	
3801 BRI	GHTON BOUL	.EVARD	
BACKFILL	. KITCHEN	FOUNDATION WAL	L

				LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	INSIDE KITCHEN WALL, 20'N.								CURVE #3
126	OF MAIN BUILDING	6.5	NUC	122.0	11.3	116	10.0	95	JOB #11870
	INSIDE KITCHEN WALL, 80'N.				_				
127	OF MAIN BUILDING	6.0	NUC	122.0	11.3	114	7.6	93	• •
127A	RETEST OF #127		NUC	122.0	11.3	116	11.3	95	11
			7.00		22.0			- 30	
								·	
ļ	*BELOW GRADE								

SPECIFICATIONS: 95 % OF MAXIMUM ASTM D 1557 MOISTURE WITHIN ± 2 % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (1) VIBRATORY HAMMER	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS
MOISTURE ADDED BY (1) HOSE	SPECIFICATIONS.
THICKNESS OF LIFT 6-8 INCHES	
TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: (1) BOBCAT LOADER	
PROGRESS REPORT THE CONTRACTOR WAS ADVISED THICKNESS FROM 12 TO 6 OR 8 INCHES. TEST & DECREASED LIFT THICKNESS TO 6 INCHES.	TO INCREASE MOISTURE AND DECREASE LIFT 127A WAS PERFORMED AFTER THE CONTRACTOR
X) IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR	* * * * * * * * * * * * * * * * * * * *
IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATE AND SHOULD BE REWORKED	D BY OUR OBSERVATIONS AND TEST NO.(S)
SCOPE OF OBSERVATION: \Box FULL TIME; $igotimes$ PERIODIC, ON CALL BASIS; $igotimes$ Contr	ACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED RON (REID BURTON)

CTL/THOMPSON, INC.

IAN SPLATT

APPROVED BY MARC E. CLEVELAND, P. E.



α	IFNT:
ч	JEINI:

FIELD REPRESENTATIVE

IS:DM

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE:	10-1-	-86	JOB. NO	12,532	
REPORT NO.					_
SUBJECT PEPSI	COLA	SPOR	rs fac	ILITY	
3801 E	3RIGH1	ron Bo	DULEVA	ŔD	
FOUNDA	NOITA	WALL	BACKF	ILL	

			TEST TYPE	LABORATORY			FIELD		
TEST NO.	LOCATION	DEPTH FEET *		MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	INSIDE KITCHEN WALL,								CURVE #3
128	60'N. OF MAIN BUILDING	4.5	NUC	122.0	11.3	116	9.5	95	JOB #11870
	OUTSIDE KITCHEN WALL								
129	<u> </u>	•3.5	NUC	122.0	11.3	116	10.3	95	1 1
	1.1]	1	٠.					
]							
		1							
	*BELOW GRADE	1						i l	
PE OF C (2) OISTURE	ATIONS: 95 % OF MAXIMUM AS MOISTURE WITHIN + 2 COMPACTION EQUIPMENT AND NO. OF UNITS: VIBRATORY TAMPERS CADDED BY (1) HOSE SOF LIFT 6-8 ARTH MOVING EQUIPMENT AND NO. OF UNITS:	% OF OF	PTIMUM	OF FILL UPON MOIST OBSER TEST DA	PLACEMENTHE CONTRA THE CONTRA DRE TO ACHI VER IS NOT P	T, AS WELL AS ACTOR TO AF EVE SPECIFIE RESENT, AND	THE TESTS S PPLY THE NECTOR OF	SHOWN ABO CESSARY C CTION DURI ONS OTHER	LT OF OUR OBSERVATI OVE. WE HAVE RELIED OMPACTIVE EFFORT, ING TIMES WHEN OU IT THAN THOSE TESTED. WHETHER THE FILL M
	BOBCAT								
		JTTNUFD	KITC	HEN FO	<u>UNDATI</u>	ON WAL	L BACK	FILL.	THE
	REPORT THE CONTRACTOR CONTRACTOR WAS ADVISED TO INC.								

TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UN (1) BOBCAT	NITS:
	OR CONTINUED KITCHEN FOUNDATION WALL BACKFILL, THE D INCREASE MOISTURE CONTENT,
	CIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(S)128., 129.
AND SHOULD BE REWORKED	MEET SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(S) ODIC, ON CALL BASIS; OCONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED RON (REID BURTON)
TAN SPIATT	CTL/THOMPSON, INC.

APPROVED BY



\sim 1	IENT:
v	11.

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

			12,532	·····	
REPORT NO.	39		SHEET1OF	1	
SUBJECT PEPSI (OLA SPORT	S FACI	LITY		
3801 BF	RITHTON BO	ULEVAR	D		

FOUNDATION WALL BACKFILL

				LABOR	RATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	OUTSIDE KITCHEN WALL,							**	CURVE #1
130	80'N. OF MAIN BUILDING	1.0	NUC	128.5	9.5	125	8.3	97	JOB #12167
	NEW BUILDING WALL,	274							CURVE #3
131	20'N. OF LOADING BAY	0.5	NUC	122.0	11.3	117	10.5	. 96	JOB #11870
				·					
						÷			
	*BELDW GRADE **98% OF MAXIMUM ASTM D 69	8 IS	REQUI	RED					

SPECIFICATIONS:MO	OISTURE W	— % OF MAXIMUM THIN ± 2	ASTM D 1557% OF OPTIMUM	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE, WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND
(2) VIBRAT				MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS
MOISTURE ADDED BY _	(1)	HOSE		SPECIFICATIONS.
THICKNESS OF LIFT	6-8	***************************************	INCHES	
TYPE OF EARTH MOVING		NT AND NO. OF UNITS:		
PROGRESS REPORTCONTRACTOR				G FILL INSIDE THE MAIN BUILDING. THE ESTS ARE NEEDED.
• •				R OBSERVATIONS AND TEST NO.(S)
AND SHOULD BE RE	WORKED			
SCOPE OF OBSERVATIO	ON: 🗆 FU	ILL TIME; 🗶 PERIODIC	ON CALL BASIS; 🗴 CONTI	RACTOR'S OR CUENT'S REPRESENTATIVE ADVISEDRON_(REID_BURTON)

IAN SPLATT

FIELD REPRESENTATIVE

CTL/THOMPSON, INC.

APPROVED BY MARC E. CLEVELAND, P. E.



\sim	ICAN

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE:	10-6-	-86	08. NO	12,5	32	
		40				1
SUBJECT						
PEPSI	COLA	SPORTS	FACIL	.ITY		
3801	BRIGHT	ron boul	EVARE)		
BACKF	ILL					

				LABOR	ATORY		FIELD			
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE	
	KITCHEN WALL, INSIDE								CURVE #3	
132	30'N, OF MAIN BUILDING	3.0	NUC	122.0	11.3	116	11.2	95	JOB #11870	
	132 30 N. OF MAIN BUILDING 3.0 NUC 122.0 11.3 116 11.2 95 JOB #11870 KITCHEN WALL, OUTSIDE									
133	45'N. OF MAIN BUILDING	1.0	NUC	122.0	11.3	116	9.7	95	11	
	SLAB INSIDE MAIN SPORTS									
134	STRUCTURE, 40'W. OF	0.0	NUC	122.0	11.3	115	10.8	94	11	
	LOADING DOCK									
										
	*BELOW GRADE	<u> </u>	L	<u> </u>	<u> </u>		<u> </u>	<u> </u>		
(2)	MOISTURE WITHIN <u>+ 2</u> DMPACTION EQUIPMENT AND NO. OF UNITS: VIBRATORY TAMPERS ADDED BY (1) HOSE			UPON MOIST OBSER TEST D	THE CONTR URE TO ACH WER IS NOT	ACTOR TO A HEVE SPECIFI PRESENT, AN	PPLY THE NE ED COMPA D AT LOCATI	CESSARY (CTION DUI ONS OTHE	SOVE. WE HAVE RELIED COMPACTIVE EFFORT AND RING TIMES WHEN OUR R THAN THOSE TESTED. N WHETHER THE FILL MEETS	
THICKNESS	OF LIFT6-8		INCHES							
	RTH MOVING EQUIPMENT AND NO. OF UNITS:									
PROGRESS REPORT THE CONTRACTOR CONTINUED BACKFILLING ADJACENT TO THE KITCHEN FOUNDATION WALL. A NEW SLAB WILL BE POURED INSIDE THE MAIN BUILDING WEST OF THE LOADING DOCK. DUE TO FILL SETTLEMENT IN THE PREVIOUSLY EXISTING CANAL, THE ORIGINAL SLAB CRACKED AND SETTLED. TEST 134 WAS TAKEN IN THE RECOMPACTED FILL MATERIAL. THE CONTRACTOR WAS ADVISED TO RECOMPACT THE ENTIRE SLAB SUBGRADE BASED ON RESULTS OF TEST 134. FURTHER TESTS ARE SCHEDULED FOR TUESDAY, 10-7-86.										
☐ IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(S)										

CTL/THOMPSON, INC.

APPROVED BY MARC E. CLEVELAND, P. E.

IAN SPLATT



CLIENT: PEPSI	COLA	COMP	ANY	
3801	BRIGHT	TON B	DULEV	ARD
DENVE	R. COL	.ORAD	3 80	216

ATTN: MR. DON PATTON

DATE: 10-7-86	JOB NO. 12,532	
	SHEET 1 OF 1	_
SUBJECT		
PEPSI COLA SPORT	S FACILITY	
3801 BRIGHTON BO	ULEVARÓ	
FOUNDATION WALL	BACKETI	

THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION

-				LABOR	RATORY		FIELD		············
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	KITCHEN WALL, INSIDE,								CURVE #3
135	20'N. OF MAIN BLDG. WALL	0.5	NUC	122.0	11.3	116	10.4	95	JOB #11870
136	KITCHEN WALL, INSIDE, 80'N. OF MAIN BLDG. WALL	0.5	NUC	122.0	11.3	118	10.9	97	1 1
	*BELOW GRADE								

MOISTURE WITHIN ± 2 % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (2) VIBRATORY TAMPERS	OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED.					
MOISTURE ADDED BY (1) HOSE	TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS SPECIFICATIONS.					
THICKNESS OF LIFT 6-8 INCHES						
TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: (1) BOBCAT, (1) FRONT END LOADER						
PROGRESS REPORT THE CONTRACTOR COMPLETED BACK WALL. THE SLAB SUBGRADE INSIDE THE MAIN S WORKED AND RECOMPACTED.	FILING ADJACENT TO THE KITCHEN FOUNDATION PORTS FACILITY BUILDING HAD NOT BEEN RE-					
☐ IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OU ☐ IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICAT AND SHOULD BE REWORKED SCORE OF ORSERNATION. ☐ FILL THAT. ■ PERIODIC ON CALL BASIS. ■ CONT.	TED BY OUR OBSERVATIONS AND TEST NO.(S)					
SCOPE OF OBSERVATION: FULL TIME; X PERIODIC, ON CALL BASIS; KI CONT	RACTOR'S OR CLIENT'S REPRESENTATIVE ADVISEDRON_(REID_BURTON)					

CTL/THOMPSON, INC.

APPROVED BY MARC E. CLEVELAND, P. E.

95 % OF MAXIMUM ASTM D 1557

IAN SPLATT

SPECIFICATIONS:___



~	ICK	T.

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE:	10-8-	-86	JOB. NO	12	,532		
REPORT N	Ю	42		SHEET_	1 OF	1	
SUBJECT							
PEPSI	COLA	SPORT	S FACI	LITY			
3801 8	BRIGHT	TON BO	ULEVAR	D			
FOUND	ATION	WALL	AND UN	DER SI	_AB BA	ACKFILI	_

				LABOR	RATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	AEROBICS ROOM, 10'S. OF								CURVE #3
137	N.W. CORNER (INSIDE)	1.5	NUC	122.0	11.3	118	10.6	97	JOB #11870
	AEROBICS ROOM, 30'S. OF								
138	N.W. CORNER (INSIDE)	1.0	NUC	122.0	11.3	116	10.6	95	11
] 1	SLAB, 20'W. OF	1.							JOB #11870
139	LOADING DOCK	0.0	NUC	126.5	10.0	126	11.7	100	CURVE #2
	SLAB, 40°W. OF	_							
140	LOADING DOCK	0.0	NUC	126.5	10.0	124	10.4	98	
		_							
	4	<u> </u>			<u> </u>				
		<u> </u>							
		4	1	1	'				
		ļ							
		4							
	*BELOW GRADE	<u>.L</u>	<u> </u>				<u> </u>	<u> </u>	
(2)		% OF O		OF FILI UPON MOISTI OBSER TEST DA	. PLACEMEN THE CONTRA URE TO ACHI VER IS NOT F	T, AS WELL AS ACTOR TO AI IEVE SPECIFIE PRESENT, AND	S THE TESTS S PPLY THE NE ED COMPAC O AT LOCATIO	SHOWN AB CESSARY C CTION DUR ONS OTHER	LT OF OUR OBSERVATION OVE. WE HAVE RELIED COMPACTIVE EFFORT, ANI ING TIMES WHEN OUR R THAN THOSE TESTED. I WHETHER THE FILL MEET
TYPE OF EA	ARTH MOVING EQUIPMENT AND NO. OF UNITS: BOBCAT								
TYPE OF EA (1) I	BOBCAT	ED IN	THE M	DRNING XPECIAL	AND AF	FTERNO	ON. T _AB AR	HE COI	NTRACTOR
TYPE OF EA (1) I	BOBCAT SREPORT THE SITE WAS VISITE	ED IN CONTEN	THE M	DRNING XPECIAL	AND AF	THE SU	ON. T _AB AR	HE COM	NTRACTOR
PROGRESS WAS	BOBCAT SREPORT THE SITE WAS VISITE	CONTEN	TS, E	XPECIA	LY IN	THE SI	_AB AR	EA.	

SCOPE OF OBSERVATION: 🗇 FULL TIME; 🖄 PERIODIC, ON CALL BASIS; 🖄 CONTRACTOR'S OR CUENT'S REPRESENTATIVE ADVISED RON_(REID_BURTON)

CTL/THOMPSON, INC.

IAN SPLATT FIELD REPRESENTATIVE

AND SHOULD BE REWORKED

APPROVED BY MARC E. CLEVELAND, P. E.



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE., DENVER, CO 80204 (303) 825-0777

CLIENT:
PEPSI COLA COMPANY
3801 BRIGHTON BOULEVARD
DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE:	10-9-86	JOB. NO	12,532	
REPORT NO	. 43		SHEETOF	1
SUBJECT				
PEPSI	SPORTS I	FACILITY		
3801 E	RIGHTON	BOULEVARD)	
FOUNDA	TION WA	L BACKFIL	L ·	

				LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	AEROBICS ROOM, INSIDE E.								CURVE #2
141	WALL, 30'S. OF N.E. COR.	1.0	NUC	126.5	10.0	123	9.6	97	JOB #11870
	LOCKER ROOM, OUTSIDE WALL								
142	40 E. OF N.W. CORNER	0.5	NUC	126.5	10.0	125	8.6	99	• •
	LOCKER ROOM, INSIDE WALL								CURVE #3
143	70'E. OF N.W. CORNER	0.5	NUC	122.0	11.3	116	14.3	95	JOB #11870
	LOCKER ROOM, INSIDE WALL								CURVE #2
144	20'E. DF N.W. CORNER	1.5	NUC	126.5	10.0	123	11.0	97	JOB #11870
	·								
1 . 1						·			
	*BELOW GRADE								

SPECIFICATIONS: 95 % OF MAXIMUM AS IM D 1557 MOISTURE WITHIN ± 2 % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (2) VIBRATORY TAMPERS	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED.					
WOISTURE ADDED BY (1) HOSE THICKNESS OF LIFT 6-8 INCHES TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: (1) BOBCAT	TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS SPECIFICATIONS.					
PROGRESS REPORT THE CONTRACTOR COMPLETED BACKFOUT. FURTHER TESTS SHOULD BE REQUIRED TU						
IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OU IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED BY OUR SHOULD BE REWORKED COPE OF OBSERVATION: ☐ FULL TIME; ☑ PERIODIC, ON CALL BASIS; ☑ CONT						

CTL/THOMPSON, INC.

IAN SPLATT

IELD REPRESENTATIVE

APPROVED BY MARC E. CLEVELAND, P. E.

IS:DM



CLIENT: PEPSI COLA COMPANY
3801 BRIGHTON BOULEVARD
DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 10-	-15-86 JOB. NO	12532	
REPORT NO	44	SHEET 1 OF	1
SUBJECT			

PEPSI COLA SPORTS FACILITY 3801 BRIGHTON BOULEVARD FOUNDATION WALL BACKFILL

				LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
145	LOCKER ROOM - OUTSIDE WALL a N.W. CORNER	0.0	NUC	126.5	10.0	122	9.2	96	CURVE #2 JOB #11870
146	PLANTER N.W. CORNER AEROBICS ROOM - EAST SIDE	0.5	NUC	126.5	10.0	120	8.5	.95	11 11
147	PLANTER: N.W. CORNER AEROBICS ROOM - WEST SIDE	0.5	NUC	126.5	10.0	121	7.5	96	11 11
148	S.W. CORNER AEROBICS ROOM OUTSIDE WALL	0.0	NUC	126.5	10.0	121	9.1	96	11 11
149	S.W. CORNER AEROBICS ROOM OUTSIDE WALL	0.0	NUC	126.5	10.0	120	9.6	95	11 11
150	S.W. CORNER AEROBICS ROOM INSIDE WALL	0.5	NUC	126.5	10.0	125	7.9	99	11 11
151	S.W. CORNER AEROBICS ROOM INSIDE WALL	0.5	NUC	122.0	11.3	116	11.9	95	CURVE #3 JOB #11870
*	BELOW GRADE								

PRECIFICATIONS: 95 % OF MAXIMUM ASTM D 1557 MOISTURE WITHIN + 2 % OF OPTIMUM PRECIFICATION EQUIPMENT AND NO. OF UNITS: (2) VIBRATORY TAMPERS MOISTURE ADDED BY (1) HOSE HICKNESS OF LIFT 6-12 INCHES	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS SPECIFICATIONS.
ABOVE LOCATIONS. THE CONTRACTOR WILL NOT	THE NEW SPORTS FACILITY WAS TESTED IN THE IFY OUR OFFICE WHEN FURTHER BACKFILL TESTS ED OF THE LOW MOISTURE CONTENTS IN THE AREAS
IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICAT AND SHOULD BE REWORKED COPE OF OBSERVATION: [] FULL TIME; [X] PERIODIC, ON CALL BASIS; [X] CONTR	• • • • • • • • • • • • • • • • • • • •

CTL/THOMPSON, INC.

IAN SPLATT

APPROVED BY



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL, AND MATERIALS ENGINEERS

1971 WEST 12TH AVE., DENVER, CO 80204 (303) 825-0777

CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN:	MD	DOM	DAT	TON
AIIN:	MK.	DUN	PAI	IUN

DATE:	10-30-	-86	JOB. NO	12,53	2		
REPORT N	٧٥	·45		SHEET_1	_ OF_	1	
SUBJECT PEPS I	COLA	SPORT	S FACIL	.ITY			
3801	BRIGHT	TON BO	ULEVARD				
UTILI	TY TRE	NCH B	ACKETLL				

				LABOR	ATORY	FIELD			
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	E. PORTION OF KITCHEN								CURVE #2
152	AREA IN TRENCH	2.0	NUC	126.5	10.0	122	8.8	96	JOB #11870
	W. PORTION OF KITCHEN								CURVE #1
153	AREA IN TRENCH	1.0	NUC	130.0	7.5	129	6.5	99	JOB #11870
	5'E. OF TEST #153								CURVE #2
154		1.0	NUC	126.5	10.0	119	7.2	94	JOB #11870
	AEROBICS ROOM IN THE								CURVE #1
155	N.E. CORNER	0.0	NUC	130.0	7.5	126	7.9	97	JOB #11870
						!			
	*BELOW FINISH GRADE								

MOISTURE WITHIN ± 2 % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (2) VIBRATORY TAMPERS	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE FILL MEETS
MOISTURE ADDED BY	SPECIFICATIONS.
THICKNESS OF LIFT 6 INCHES	
TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: (1) BOBCAT	
PROGRESS REPORT THE CONTRACTOR WAS ADVISED TO FILL (TEST 154) AND TO KEEP LIFT THICKNESS SCHEDULED FOR FRIDAY, 10-31-86, THE AREA NECESSARY.	TO 6 INCHES. ADDITIONAL TESTS ARE WAS RECOMPACTED AND NO RETEST WAS
▼ IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR	R OBSERVATIONS AND TEST NO.(S) 152-155
IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICAT AND SHOULD BE REWORKED	
SCOPE OF OBSERVATION: [7] FULL TIME: X1 PERIODIC, ON CALL BASIS: X1 CONTI	RACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED RON (REID BURTON

CTL/THOMPSON, INC.

IAN SPLATT



CTL/THOMPSON, INC. CONSULTING GEOTECHNICAL

1971 WEST 12TH AVE., DENVER, CO 80204 (303) 825-0777

CLIENT: PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE:	10-31-86 JOB.NO.	12,532	
REPORT NO	46	SHEETOF	1
SUBJECT PEPSI	COLA SPORTS FACI	LITY	
3801 E	RIGHTON BOULEVAR	D	
UTILIT	Y TRENCH BACKFILL	L_	

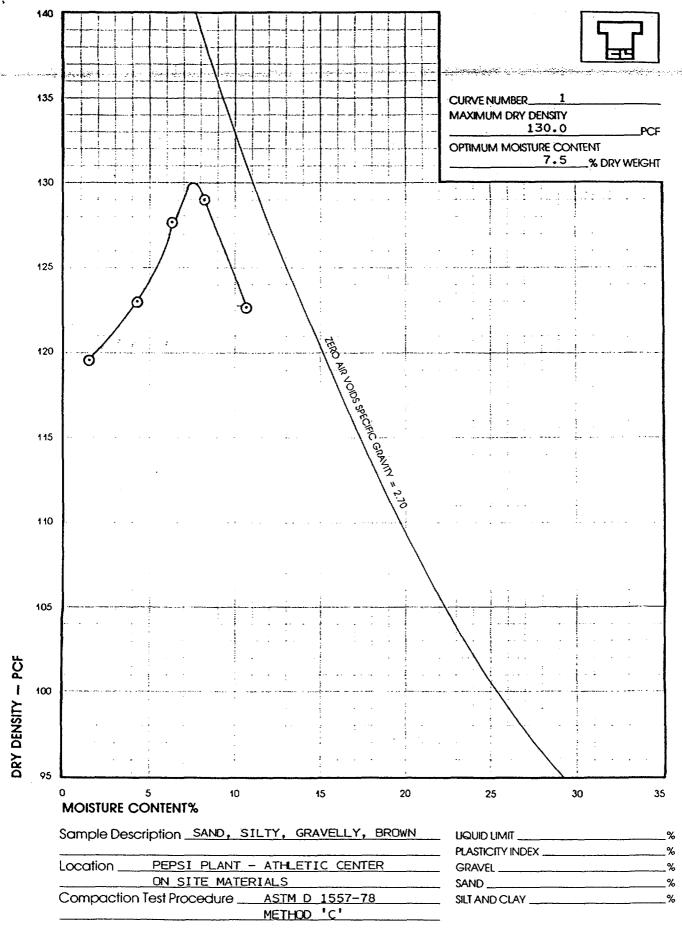
				LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	W. END OF TRENCH IN		· · · · · · · · · · · · · · · · · · ·						CURVE #2
156	KITCHEN AREA	0.0	NUC	126.5	10.0	121	7.7	96	JOB #11870
	E. END OF TRENCH IN								
157	KITCHEN AREA	0.0	NUC	126.5	10.0	122	5.1	96	- 1 1
									e de la composition della comp
	Annual Control of the					-			Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Marie Ma
	*BELOW FINISH GRADE								
YPE OF C	ATIONS: 95 % OF MAXIMUM A MOISTURE WITHIN ± 2 COMPACTION EQUIPMENT AND NO. OF UNITS: VIBRATORY TAMPERS	% OF O	PTIMUM	OF FILL UPON MOISTU OBSER	PLACEMEN THE CONTRA JRE TO ACHI JER IS NOT P	T, AS WELL AS ACTOR TO AP EVE SPECIFIE RESENT, AND	THE TESTS S PLY THE NEO D COMPAC AT LOCATIO	SHOWN AB CESSARY C CTION DUR DNS OTHEI	LT OF OUR OBSERVATION OVE. WE HAVE RELIED COMPACTIVE EFFORT A VING TIMES WHEN OUT R THAN THOSE TESTED. I WHETHER THE FILL ME
	ADDED BY (1) HOSE SOF LIFT 6				CATIONS.	111E 3QLE BA	SIS FOR OF	1141014301	A AALICIUS ILIE LICE IAIC
	S OF LIFT		INCHES						
	BOBCAT								
	SREPORT THE CONTRACTOR WAS								
	EST 157. THIS AREA WILL B	E RETE	STED I	YUNDAI,	11_2_				* *
				MUNDAY,					

CTL/THOMPSON, INC.

IAN SPLATT

APPROVED BY

SCOPE OF OBSERVATION: (1) FULL TIME; X1 PERIODIC, ON CALL BASIS; X1 CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED RON (REID BURTON)



Compaction Test Results



\sim	IEN	1T

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 11/4/86	JOB. NO	1253	32	
REPORT NO.				
SUBJECT				

PEPSI COLA SPORTS FACILITY 3801 BRIGHTON BOULEVARD UTILITY TRENCH BACKFILL

			<u> </u>	LABOR	ATORY	1	FIELD		
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	ADJACENT PIPELINE AT								CURVE #3
158	NORTHERN END OF TRENCH	9.0	NUC	122.0	11.3	117	9.5	96	JOB #11870
	15'WEST OF OUTSIDE KITCHEN	1							
	WALL								
	·					İ			CURVE #2
157A	RETEST OF #157		NUC	126.5	10.0	120	8.8	95	JOB #11870
									- Bold Com to Judge (mail-separate), and appears (met me
					-				and the state of t
*	BELOW FINISHED GRADE								

BELUW FINISHED GRADE				<u></u>	
SPECIFICATIONS: 95 % OF MAXIMUM ASTM D 155 MOISTURE WITHIN ± 2 % OF OPTIM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (2) VIBRATORY TAMPERS MOISTURE ADDED BY (1) HOSE	JM OF FILL PLACEM UPON THE CON MOISTURE TO A OBSERVER IS NO TEST DATA ARE N SPECIFICATIONS	ESENTS OPINIONS FO MENT, AS WELL AS THE NTRACTOR TO APPLY T CHIEVE SPECIFIED CO DT PRESENT, AND AT LO NOT THE SOLE BASIS FO S.	TESTS SHOWN A HE NECESSARY DMPACTION DU DCATIONS OTH	BOVE. WE HAVE REL COMPACTIVE EFFO IRING TIMES WHEN ER THAN THOSE TEST	IED RT AND OUR ED.
THICKNESS OF LIFT 6-8 INC	IES				
TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:					
(1) BOBCAT					
PROGRESS REPORT THE CONTRACTOR BEGAN PLACIN SEWER TRENCH LOCATED APPROXIMATELY 15 TESTS WERE SCHEDULED FOR WEDNESDAY 11/	FEET WEST OF 1	THE OUTSIDE	KITCHE	N WALL. F	URTH
		** * *** ****			
The state of the s					-
· · · ·	e - * *	•			
X IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED	BY OUR OBSERVATIONS AN	ID TEST NO.(S)	158,	157A	
IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS II					
AND SHOULD BE REWORKED			••••		
AND SHOULD BE KENOKKED					

SCOPE OF OBSERVATION: [] FULL TIME; [X PERIODIC, ON CALL BASIS; [X CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED | RON (REID

CTL THOMPSON, INC.

APPSOATO BY

IAN SPLATT

MARC E. CLEVELAND, P.E.

BURTON)



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE., DENVER, CO 80204 (303) 825-0777

CLIENT: PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

IAN SPLATT

FIELD REPRESENTATIVE IS:DM

DATE:	11-5-86	_ JOB, NO	12	532	
REPORT NO.	48		SHEET 1	OF	1

SUBJECT
PEPSI COLA SPORTS FACILITY 3801 BRIGHTON BOULEVARD SANITARY SEWER TRENCH BACKFILL

			Γ	LABO	RATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	SEWER TRENCH				٠.				CURVE #3
159	NORTH END	5.0	NUC	122.0	11.3	116	9.7	95	JOB #11870
	SEWER TRENCH								
160	SOUTH END	6.0	NUC	122.0	11.3	118	9.6	97	1 8
	SEWER TRENCH, SOUTH END,					,			
161	ADJACENT TO MAIN BUILDING	3.0	NUC	122.0	11.3	120	9.7	98	11
	3								CURVE #2
162	50'N. OF MAIN BUILDING	0.5	NUC	126.5	10.0	124	9.6	98	JOB #11870
				1		[
			<u></u>						
]							
		1							
						,			
	*BELOW FINISHED GRADE		<u> </u>		<u> </u>				

SPECIFICATIONS: 95 % OF MAXIMUM ASTM D 155	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION
MOISTURE WITHIN ± 2 % OF OPTIM	UM OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE, WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE-NECESSARY COMPACTIVE EFFORT AND
TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (2) VIBRATORY TAMPERS	MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED.
MOISTURE ADDED BY (1) HOSE	TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS SPECIFICATIONS.
IFICANESS OF LIFE	HES
TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: (1) BOBCAT	
	ENCH BACKFILL IN THE SANITARY SEWER TRENCH. HE WATER CONTENT IN THE FILL AND TO IMUM.
IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS I AND SHOULD BE REWORKED	BY OUR OBSERVATIONS AND TEST NO.(S) 159—162 NDICATED BY OUR OBSERVATIONS AND TEST NO.(S) CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED RON (REID BURTON)
SCOPE OF OBSERVATION: FULL TIME; A/A PERIODIC, ON CALL BASIS;	CONTRACTOR 2 OF CEIENT 2 KENKESENIATIAE ADAISED TO TOOK 1 DIA 1

CTL/THOMPSON, INC.

APPROVED BY MARC E. CLEVELAND, P. E.



CLIENT: PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE:	11-7-	-86 _{JC}	08. NO	12,5	32		
)				1	
SUBJECT PEPSI	COLA	SPORTS	FACIL	.ITY			

3801 BRIGHTON BOULEVARD UTILITY TRENCH BACKFILL

				LABO	RATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	20'W. OF GYMNASIUM IN					1			CURVE #3
163	ADJACENT TRENCH	6.0	NUC	122.0	11.3	117	11.0	96	JOB #11870
	30'N. OF MAIN BUILDING								
164	IN MAIN TRENCH	1.0	NUC .	122.0	11.3	118	11.1	97	1 1
	ELECTRICAL TRENCH, E. OF								
165	NEW SPORTS BLDG. E. TRENCH	0.0	NUC	122.0	11.3	115	12.2	94.	1 1
l	ELECTRICAL TRENCH, E. OF								CURVE #1
166	NEW SPORTS BLDG., CENTRAL	0.0	NUC	130.0	7.5	128	9.9	99	JOB #11870
	TRENCH								
	ELECTRICAL TRENCH, E. OF						-	ļ	CURVE #3
167	NEW SPORTS BLDG., N. TRENCH	0.0	NUC	122.0	11.3	114	13.9	93	JOB #11870
		ľ	ľ	l	ł			ľ	
				ļ					
	*BELOW FINISH GRADE								
YPE OF C	MOISTURE WITHIN ± 2 COMPACTION EQUIPMENT AND NO. OF UNITS: VIBRATORY TAMPERS			OF FILI UPON MOIST OBSER	L PLACEMEN THE CONTR URE TO ACH EVER IS NOT	IT, AS WELL AS ACTOR TO AF HEVE SPECIFIE PRESENT, AND	S THE TESTS S PPLY THE-NE ED COMPAC O AT LOCATIO	SHOWN AB CESSARY C CTION DUR ONS OTHEI	ILT OF OUR OBSERVATION OVE. WE HAVE RELIED COMPACTIVE EFFORT AT RING TIMES WHEN OUR RIHAN THOSE TESTED. WHETHER THE FILL MET
<i>N</i> OISTURE	EADDED BY (1) HOSE				ICATIONS.	# 12 00 EE G	20,000		
HICKNES	S OF LIFT 12		INCHES						
	ARTH MOVING EQUIPMENT AND NO. OF UNITS: BOBCAT								
FILL	SREPORT THE CONTRACTOR WAS OF THE ELECTRICAL TRENCH.								IN THE BACK E SOILS, AN

☐ IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(5) 163-166 AND SHOULD BE REWORKED SCOPE OF OBSERVATION: THE FULL TIME; X PERIODIC, ON CALL BASIS; M CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED RON (REID BURTON) CTL/THOMPSON, INC. IAN SPLATT

APPROVED BY MARC E. CLEVELAND, P. E.

IS:DM

FIELD REPRESENTATIVE



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE., DENVER, CO 80204 (303) 825-0777

CLIENT:
PEPSI COLA COMPANY
3801 BRIGHTON BOULEVARD
DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE:	11-1	11-86 _{JO}	B. NO _	12,	532	2
		50				
SUBJECT PEPSI	COLA	SPORTS	FACIL	.ITY		

PEPSI COLA SPORTS FACILITY
3801 BRIGHTON BOULEVARD
UTILITY TRENCH BACKFILL

]		LABOR	RATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION	SOIL TYPE
									CURVE #2
167A	l		NUC	126.5	10.0	123	8.1	97	JOB #11870
	ELECTRICAL TRENCH, 60°W.]						CURVE #1
168	OF 38TH AVENUE	0.0	NUC	130.0	7.5	129	6.7	99	JOB #11870
	ELECTRICAL TRENCH, ADJ.								CURVE #2
169	TO 38TH AVENUE, N. END	0.0	NUC	126.0	10.0	121	9.2	96	JOB #11870
				-					
		 							
		4							
]		ļ	
		-							
		+	 -						
		-							
		†	 					 	
	*BELOW GRADE	1							

MOISTURE WITHIN + 2 % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (1) BACKHOE WITH VIBRATORY TAMPER	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED.
MOISTURE ADDED 8Y	TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS SPECIFICATIONS.
TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: (1) BACKHOE	
WERE ALLOWED TO DRY. FURTHER TESTS WERE	TRENCH WAS COMPACTED AFTER THE SOILS SCHEDULED FOR THURSDAY, 11-13-86.
	our observations and test no.(s) 167A , 168 , 169
SCOPE OF OBSERVATION: [] FULL TIME; [X] PERIODIC, ON CALL BASIS; [X] COP	NTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED RON (REID BURTON)

CTL/THOMPSON, INC.

IAN SPLATT



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE, DENVER, CO 80204 (303) 825-0777

CLIENT:

PEPSI COLA COMPANY

3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 11-20-86

REPORT NO.

JOB. NO. 12532

SHEET . 1 OF

SUBJECT

PEPSI COLA SPORTS FACILITY 3801 BRIGHTON BOULEVARD RAMP AND WALL BACKFILL

55

			<u> </u>	LABOR	RATORY	<u> </u>	FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	oMC	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	MAIN BUILDING WALL, SOUTH								CURVE #1
177	OF KITCHEN RAMP	0.0	NUC	130	7.5	128	8.7	99	JOB #11870
•	WALL, EAST OF KITCHEN RAMP	0.0	NUC	130	7 . 5	127	10.7	98	11
:	MIDDLE OF KITCHEN RAMP	0.0	NUC	130	7.5	123	9.8	95	
	WALL ON WEST SIDE OF KITCHEN RAMP	0.0	NUC	130	7.5	130	9.1	100	CURVE #1 JOB #11870
	and the same of th								
									and the second s
	Mark 100 (100 (100 (100 (100 (100 (100 (100					ę			a management of the state of th
*	BELOW FINISHED GRADE								

MOISTURE WITHIN ± 2 % OF OPTIMUM YPE OF COMPACTION EQUIPMENT AND NO, OF UNITS: (2) VIBRATORY TAMPERS MOISTURE ADDED BY ——— HICKNESS OF LIFT 6 INCHES YPE OF EARTH MOVING EQUIPMENT AND NO, OF UNITS:	OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS SPECIFICATIONS.
(1) BOBCAT	THE MOISTURE CONTENT ABOVE THE SPECIFIED
THE REPORT OF THE RESERVE OF THE RES	a second control of the second
the second of th	

CTL/THOMPSON, INC.

IAN SPLATT

APPROVED BY

SCOPE OF OBSERVATION: 1 FULL TIME; X ! PERIODIC, ON CALL BASIS; X ! CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED

MARC E. CLEVELAND, P.E.

SUPERVISOR (REID

BURTON)

IELD REPRESENTATIVE



CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

IAN SPLATT

FIELD REPRESENTATIVE

IS:PV

ATTN: MR. DON PATTON

DATE: 11-19-86 JOB. NO. 1253	2
REPORT NO. 54 SHEET	1 _{OF} 1
SUBJECT	
PEPSI COLA SPORTS FACIO	LITY
3801 BRIGHTON BOULEVAR	D
RAMP AND WALL BACKFILL	

FIELD

TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
(2)	MOISTURE WITHIN ± 2 COMPACTION EQUIPMENT AND NO. OF UNITS: VIBRATORY TAMPERS ADDED BY ——		PTIMUM	UPON MOISTI OBSER TEST DA	THE CONTRA URE TO ACHI VER IS NOT P	ACTOR TO AP JEVE SPECIFIE PRESENT, AND	PLY THE NEC D COMPAC AT LOCATIO	CESSARY C CTION DUR ONS OTHER	OVE, WE HAVE RELIED COMPACTIVE EFFORT AND ING TIMES WHEN OUR R THAN THOSE TESTED. I WHETHER THE FILL MEETS
	_		INCHES		•				
TYPE OF EA	ARTH MOVING EQUIPMENT AND NO. OF UNITS: BOBCAT								
COMPA LATE	REPORT THE SITE WAS VISITE ACTED ENOUGH FILL TO REQUIR IN THE AFTERNOON, BUT THE	e test Contra	ING.	THE C	ONSTRU T ON S	CTION.	SITE V D HIS	VAS AG	MENT WAS
TESTS	S IF NECESSARY.								
□ IN OHB	R OPINION, FILL COMPACTION MEETS SPECIFICATION	S AS INDICA	TED BY OU	ID ORSEDVAI	TONS AND T	IEST NO (S)			
☐ IN OUR	ROPINION, FILL COMPACTION DOES NOT MEET SPECI								
	HOULD BE REWORKED FOBSERVATION: [] FULL TIME; X] PERIODIC, ON C	CALL BASIS:	X CONI	RACTOR'S	OR CLIENT'S	REPRESENTA	TIVE ADVIS	ED _RON	(REID
									URTON)

CTL/THOMPSON, INC.

MARC E. CLEVELAND, P.E.

APPROVED BY

LABORATORY



CLIENT:

FIELD REPRESENTATIVE

IS:PV

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 11-13	-86 JOB NO	12532	to marginal on many selected to before		
REPORT NO.	51	SHEET 1	OF	1	- -
SUBJECT					

PEPSI COLA SPORTS FACILITY 3801 BRIGHTON BOULEVARD UTILITY TRENCH BACKFILL

				LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
170	ELECTRICAL TRENCH-WEST SIDE, 10'E OF RAIL TRACKS	0.0	NUC	126.5	10.0	123	10.9	97	CURVE #2 JOB #11870
		•	·						
									,
						÷			
*	BELOW FINISHED GRADE								

MOISTURE WITHIN ± 2 % OF OPTIMUM YPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (1) VIBRATORY TAMPER ATTACHED TO BACKHOE	THIS REPORT FRESEIVES OF INIONS FORWED AS A RESULT OF OUR OBSERVATION
MOISTURE ADDED BY	SPECIFICATIONS.
COMPLETED.	BACKFILL IN THE ELECTRICAL TRENCH WAS
IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDI AND SHOULD BE REWORKED	OUR OBSERVATIONS AND TEST NO.(S) 170 CATED BY OUR OBSERVATIONS AND TEST NO.(S) DNTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED RON (REID BURTON)
IAN SPLATT	CTL/THOMPSON, INC.

APPROVED BY



CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

IAN SPLATT

FIELD REPRESENTATIVE

IS:PV

DATE: 11-17-	-86JO8. N	0 12532		
REPORT NO	52	SHEET	1 _{Of}	1
SUBJECT				
PEPSI	COLA SPOR	TS FACIL	ITY	

MARC E. CLEVELAND, P.E.

PEPSI COLA SPORTS FACILITY 3801 BRIGHTON BOULEVARD UTILITY TRENCH BACKFILL

		<u> </u>	Γ	LABOR	RATORY	<u> </u>	FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	OUTSIDE WALL-N.W. CORNER			1					CURVE #3
171	KITCHEN-10'W OF BUILDING	1.0	NUC	122	11.3	118	10.3	97	JOB #11870
	OUTSIDE WALL-N.W. CORNER	-							
172	KITCHEN-30'W OF BUILDING	2.0	NUC	122	11.3	120	10.1	98	
	INSIDE WALL-CAFETERIA								
173	20'N OF KITCHEN	3.5	NUC	122	11.3	114	10.7	93	
173A	RETEST OF #173		NUC	122	11.3	116	9.8	95	
*	BELOW GRADE								

SPECIFICATIONS: 95 % OF MAXIMUM ASTM D 1557 MOISTURE WITHIN ± 2 % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (3) VIBRATORY TAMPERS	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED.
MOISTURE ADDED BY (1) HOSE THICKNESS OF LIFT 6-12 INCHES TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: (1) BOBCAT	SPECIFICATIONS.
INCHES .	73A. CONTRACTOR WAS ADVISED TO COMPACT O MAINTAIN LIFT THICKNESS AMOUNT \$0 6 TO 12
IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDIC AND SHOULD BE REWORKED	OUR OBSERVATIONS AND TEST NO.(S) 171, 172, 173A CATED BY OUR OBSERVATIONS AND TEST NO.(S) ONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED RON (REID BURTON)
	CTUTION INCOMENCE



CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 11-18	-86	JOB. NO	1253	2	#***** *****************	
REPORT NO		53	SHEET	1 OF	1	
SUBJECT						
DEDCT		SPORTS F	ACTLT	TY		

PEPSI COLA SPORTS FACILITY 3801 BRIGHTON BOULEVARD UTILITY TRENCH BACKFILL

				LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	N.W. CORNER KITCHEN-OUTSIG	E							CURVE #3
174	WALL ADJACENT CAFETERIA	0.0	NUC	122.0	11.3	120	11.0	98	JOB #11870
	OUTSIDE WALL OF	٠.							CURVE #2
175	CAFETERIA	2.0	NUC	126.5	10.0	124	9.0	98	JOB #11870
	20'WEST (ON RAMP) OF								
176	CAFETERIA WALL	0.0	NUC	126.5	10.0	122	9.8	96	1 1 1 1
								<u> </u>	
					,				
			<u> </u>			*			
*	BELOW FINISHED GRADE								
	LOUISHED GRADE				L	l	L	<u> </u>	
SECIEIC!	ATIONS: 95 % OF MAXIMUM AS	CI MTS	1557	TUIC DE	חרטז טטבפב	NITC ODINHON	JO EODKAED	A & A DECL	LT OF OUR OBSERVA

PECIFICATIONS:95 % OF MAXIMUMASTM_D_1557 MOISTURE WITHIN ± 2 % OF OPTIMUM YPE OF COMPACTION EQUIPMENT AND NO. OF UNITS:(2)_VIBRATORY_TAMPERS	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS
MOISTURE ADDED BY	SPECIFICATIONS.
HICKNESS OF LIFTINCHES	
YPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:	
(1) BOBCAT	
X IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR	OBSERVATIONS AND TEST NO.(S) 174-176
] IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATE AND SHOULD BE REWORKED	D BY OUR OBSERVATIONS AND TEST NO.[S]
COPE OF OBSERVATION: [] FULL TIME; X] PERIODIC, ON CALL BASIS; X] CONTR	ACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED RON (REID BURTON)

CTL/THOMPSON, INC.

IAN SPLATT

APPROVED BY



CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 1-7-87	JOB. NO1	2532	
REPORT NO.	.56	SHEET1	Of1
SUBJECT			

PEPSI COLA SPORTS FACILITY 3801 BRIGHTON BOULEVARD RAMP AND WALL BACKFILL

<u></u>				LABOR	PATORY	<u> </u>	FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
181	RAMP E. EDGE; 10'S AT NORTH END OF RAMP	0.0	NUC	122	11.3	116	10.7	4	CURVE #3 JOB #11870
182	RAMP E. EDGE; 10'S AT NORTH END OF RAMP	0.0	NUC	122	11.3	116	12.8		11 11
183	NORTH WALL OF WEIGHT ROOM; ADJ. TO ENTRANCE	0.0	NUC	122	11.3	111	12.1	91	71
	(INTERIOR)								
184	NORTH WALL OF WEIGHT ROOM; ADJ. TO ENTRANCE	0.0	NUC	122	11.3	115	10.6	95	11 11
	(EXTERIOR)								
*	BELOW GRADE								

SPECIFICATIONS: 95 % OF MAXIMUM ASTM D 1557 MOISTURE WITHIN ± 2 % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (2) VIBRATORY TAMPERS	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED.					
MOISTURE ADDED BY HOSE FHICKNESS OF LIFT 8-12 INCHES	TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS SPECIFICATIONS.					
IYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: (1) BOBCAT						
PROGRESS REPORT THE CONTRACTOR BEGAN FINAL WALL BUILDING ENTRANCE. CONTRACTOR WAS INFORME TO DECREASE LIFT SIZE TO A MAXIMUM OF 6 IN REWORKED, AND RETESTED.	ED OF RESULTS OF TEST #183 AND WAS ADVISED NCHES, THE AREA OF TEST #183 WILL BE					
IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUT X IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED AND SHOULD BE REWORKED.						
SCOPE OF OBSERVATION: [] FULL TIME; X] PERIODIC, ON CALL BASIS; [X] CONT	RACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED RON (REIDBURTON)					

CTL/THOMPSON, INC.

IAN SPLATT



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE, DENVER, CO 80204 (303) 825-0777

CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE:1_	8-87	JOB. NO.	12532		-	
REPORT NO.		57	SHEET1	OF	1	
NA FOT						

PEPSI COLA SPORTS FACILITY 3801 BRIGHTON BOULEVARD FOUNDATION WALL BACKFILL

	<u> </u>	-		LABOR	ATORY	[FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
								ł	CURVE #3
183A	RETEST #183		NUC	122	11.3	117	14.2	96	JOB #11870
185	ADJACENT TO NORTH WALL OF MAIN ENTRANCE	0.0	NUC	122	11.3	117	15.8	96	
	N.E. CORNER OF								CURVE #2
186	CAFETERIA ROOM	1.5	NUC	126.5	10.4	123	9.5	97	JOB #11870
									a de ser ser se de la la la la la la la la la la la la la
						5			
*	BELOW GRADE								

PECIFICATIONS: 95 % OF MAXIMUM ASTM D 1557 MOISTURE WITHIN ± 2 % OF OPTIMUM YPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (2) VIBRATORY TAMPERS	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEET!					
AOISTURE ADDED BY (1) HOSE HICKNESS OF LIFT 6 INCHES	SPECIFICATIONS.					
YPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: (.1.) BOBCAT						
	F CAFETERIA ROOM, CONTRACTOR WAS AD- DISTURE CONTENT; TESTS 183A AND 185 WERE					
X IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR	OBSERVATIONS AND TEST NO.ISI 183A. 185. 186					
IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED AND SHOULD BE REWORKED						
COPE OF OBSERVATION: (1) FULL TIME; X1 PERIODIC, ON CALL BASIS; X1 CONTRA	ACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED RON (REID BURTON)					

CTL/THOMPSON, INC.

IAN SPLATT

APPROVED BY



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE., DENVER, CO 80204 (303) 825-0777

CLIENT: PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE:	1-13-87	_, JOB, NO,	12532		
REPORT	NO	58	SHEET_1_	OF1	L
SUBJECT	ī				

PEPSI COLA SPORTS FACILITY 3801 BRIGHTON BOULEVARD FOUNDATION WALL BACKFILL

				LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	ОМС %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
187	INSIDE SOUTH WALL OF MAIN ENTRANCE	0,0	i !NUC	122	11.3	120	11.7	98	CURVE #3 JOB #11870
	OUTSIDE OF NORTH PLANTER WALL @ MAIN ENTRANCE	2.5	NUC	122	11.3	120	11.5	98	11 11
*	BELOW GRADE								

SPECIFICATIONS: 95 % OF MAXIMUM ASTM D 1557 MOISTURE WITHIN ± 2 % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (2) VIBRATORY TAMPERS	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS
MOISTURE ADDED BY (1) HOSE	SPECIFICATIONS.
THICKNESS OF LIFT	
PROGRESS REPORT THE CONTRACTOR CONTINUED BACKFIL WALLS. CONTRACTOR ADVISED TO DECREASE MO THE SOUTH PLANTER WALL.	ISTURE CONTENT OF THE UNCOMPACTED FILL AT
() IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OU	R OBSERVATIONS AND TEST NO.[S] 187-188
IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICAT AND SHOULD BE REWORKED	ED BY OUR OBSERVATIONS AND TEST NO.(S)
SCOPE OF OBSERVATION: [] FULL TIME; 💢 PERIODIC, ON CALL BASIS; 💢 CONT	RACTOR'S OR CLIENT'S REPRESENTATIVE ADVISEDRON (REIDBURTON)

CTL/THOMPSON, INC.

IAN SPLATT

APPROVED BY



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE., DENVER, CO 80204 (303) 825-0777

CLIENT:

IELD REPRESENTATIVE

S:PV

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE:	1-14-87	JOB. NO	12532	
	NO			
S) IR IECT				

PEPSI COLA SPORTS FACILITY 3801 BRIGHTON BOULEVARD FOUNDATION WALL BACKFILL

	LOCATION		DEPTH TEST FEET TYPE	LABORATORY		FIELD			
TEST NO.		FEET		MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	OUTSIDE WEST WALL OF								CURVE #3
189	PLANTER	0.0	NUC	122	11.3	114	13.2	93	JOB #11870
	OUTSIDE SOUTH WALL OF								
190	PLANTER	3.5	NUC	122	11.3	119	10.7	98	11
189A	RETEST #189		NUC	122	11.3	119	12.4	98	11 11
191	INSIDE NORTH WALL OF PLANTER	2.0	NUC	122	11.3	116	11.0	95	11
192	INSIDE SOUTH WALL OF PLANTER	1.0	NUC	122	11.3	119	11.1	98	• • • • • • • • • • • • • • • • • • • •
*	BELOW GRADE				_				an annagan alam naga sendendakan di annagan sama naga di senden - Hinduse Hinne senden - San H

PECIFICATIONS: 95 % OF MAXIMUM ASTM D 1557 MOISTURE WITHIN ± 2 % OF OPTIMUM YPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (2) VIBRATORY TAMPERS	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS				
MOISTURE ADDED BY (1) HOSE HICKNESS OF LIFT 6 INCHES YPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: (1) BOBCAT	SPECIFICATIONS.				
ROGRESS REPORT THE CONTRACTOR CONTINUED BACKF IS SCHEDULED FOR COMPLETION THURSDAY JANUA	RY 15, 1987.				
IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICAT AND SHOULD BE REWORKED COPE OF OBSERVATION: FULL TIME; PERIODIC, ON CALL BASIS; CONTR	ED 8Y OUR OBSERVATIONS AND TEST NO.(S)				
IAN SPLATT	CTL/THOMPSON, INC.				

APPROVED BY

_/THOMPSON, INC. ISULTING GEOTECHNICAL) MATERIALS ENGINEERS



					Job No	11870		
					Date		3	
): PEPSI COLA BOTTLING COMPANY OF DENVER						II Control at		
							THLETIC CE	NTER
7004 5575(7701 5115					3801	BRIGHTON E	BLVD /	
3801 BRIGHTON B	LVD				CONST	RUCTION DE	SERVATION	
DENVER, COLORAD	0 80216				Daily Repo	rt Na		
ATTN: MR. DON	PATTON		•				· · · · · · · · · · · · · · · · · · ·	
LOCATION	DEPTH	TEST	SPEC. MAX. DENSITY P.C.F.	0. M. C. %	DRY DENSITY P.C.F.	MOISTURE CONTENT %	COMPACTION	SOIL TYP
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e of compaction equipme	ent and number	of units	ę. —					
nber of passes:								
ckness of liftincl								
had of adding moisture								
e of earth moving equip) DOZ	ER (1)	SCRAPER		
gress Report:								
gross rioport.								
REQUESTED BY RON COBSERVE THE REMOVAE CONTRACTOR HAD STOTHE TIME OF OUR FILM AN AREA 20 FEET SOME DEBRIS AT THE WOULD RETURN LATER ITRACTOR HAD EXCAVAEA. AT A DEPTH OF OUR ANATURAL SANDY FOOT STRIP BUT WOUTLE MONDAY (7-8-85)	L OF MATERIA ARTED TO SUE RST VISIT, A WIDE BY 60 F I'S DEPTH SO IN THE DAY TED TO A DEF APPROXMATELY CLAY. THE C	AL FROM APPROX. FEET LO WE REC TO 08: PTH OF (7 FEE CONTRAC	M THE ATH VATE ALON IMATELY 4 DNG THE COMMENDED SERVE THE APPROXIM ET THE CO CTOR SAID	LETIC G THE FEET CONTI THEY IR PRO ATELY NTRAC	CENTER WEST SI OF MATE RACTOR W CONTINU OGRESS. 8 FEET TOR CUT OULD STA	AREA. UPO DE OF THE RIAL HAD E AS STILL T E SUB-EXCA WHEN WE F IN THE ABO THROUGH TE	ON OUR ARRI ATHLETIC (BEEN REMOVE IN LOOSE FI AVATING AND RETURNED TH DVE MENTION HE LOOSE FI FING ANOTHE	CENTER. ED LLL MED LLL ER
			A	pproved	RON	IALD M. MC	OMBER, P.E	

CF

_/THOMPSON, INC. ISULTING GEOTECHNICAL) MATERIALS ENGINEERS 11870 Job No. 7-8-85 Date____ Subject: Fill Control at PEPSI PLANT - ATHLETIC CENTER): PEPSI COLA BOTTLING COMPANY OF DENVER 3801 BRIGHTON BLVD 3801 BRIGHTON BLVD FILL OBSERVATION DENVER, COLORADO 80216 Daily Report Na ___2 ATTN: MR. DON PATTON MOISTURE COMPACTION SOIL TYPE TEST SPEC. MAX. DRY T DEPTH O. M. C. DENSITY DENSITY CONTENT LOCATION TYPE % P.C.F. P.C.F. e of compaction equipment and number of units: (1) SHEEPSFOOT COMPACTOR iber of passes: kness of lift___inches. hod of adding moisture: (1) WATER TRUCK (1) 621 SCRAPER (1) DOZER (1) LOADER s of earth moving equipment and number of units:____ iress Report: THE TIME OF OUR SITE VISIT, THE CONTRACTOR WAS EXCAVATING EXISTING FILL MATERIAL FROM NG THE WEST SIDE OF THE ATHLETIC CENTER. THE EXISTING FILL MATERIAL WAS THEN STOCK ED FOR LATER USE. THE CONTRACTOR THEN STARTED TO REWORK AND RECOMPACT MATERIAL IN SAME AREA.

KIRK STEADMAN/WILLIAM KLETT	
Field Engineer	
Approved by:RONALD M. MC OMBER, P.E.	_

NK:CF

L/THOMPSON, INC.
VSULTING GEOTECHNICAL
MATERIALS ENGINEERS



					,	Job No	11870		_	
							7-9-85			
							II Control at			
0:_	PEPSI COLA BOTTLI	NG COMPANY	OF DE	NVER				THLETIC CE	NTER	
		_				3801· E	BRIGHTON B	LVD		
-	3801 BRIGHTON BLV	<u>D</u>				FILL (DBSERVATIO	N		
	DENVER, COLORADO	80216				Daily Repor	rt No3			
	ATTN: MR. DON PA	TTON .								
FT).	LOCATION	DEPTH *	TEST TYPE	SPEC. MAX. DENSITY ** P.C.F.	O. M. C. %	DRY DENSITY P.C.F.	MOISTURE CONTENT %	COMPACTION	SOIL	TYPE
=	25'N & 80'E OF N. CORNER OF BLDG	w		170	0 0	l .		<u> </u>	CAND	CDAVI
	RETEST OF #1	6.5	SAND	132	8.0	113	7.3	85	SAND	GRAVE
_			SAND	132	8.0	119	7.1	90		
_	RETEST OF #2 25'N & 60'E OF N.	W .	SAND	132	8.0	120	6.6	90		
-	CORNER OF BLDG	6.5	SAND	132	8.0	115	6.2	87	1	11
_	RETEST OF #4		NUC	132	8.0	123	6.8	93	 ' '	1 1
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)е	of compaction equipment	and number	of units	;(1)	LOADI	ED FRONT	-END LOADE	R WHEEL RO	LLING	;
	er of passes: VAR		· · · · · · · · · · · · · · · · · · ·							
	ness of liftinches									
the	od of adding moisture:	(1) WA	TER TE	RUCK						
	of earth moving equipmen) 621	SCRAPER	(1) DOZEF	}		
ar	ess Report:									
3.										
	EQUESTED, OUR FIELD									
	TO PERFORM FIELD DEI INUED WORK ON THE WI			· · · · · · · · · · · · · · · · · · ·				THE CONT NTRACTOR W		
	ED OF THE FAILING TO									•
_						WALL T	ABA &:			
	ELOW GRADE (FEET) AXIMUM DENSITY ESTI	MATED BACE	U INDUA	 J ∆ ∩NE		M T L L	AM KLETT	Field Eng	ineer	
	DINT STANDARD PROCT									
_	_			A	pproved		·			
CF	=					RON	ALD M. MC	OMBER, P.E	Ē.	

_/THOMPSON, INC. ISULTING GEOTECHNICAL) MATERIALS ENGINEERS



					Job No	11870		
					Date	7-12-8	15	
•					Subject:_Fi	11 Control at		
: PEPSI COLA BOTTL	ING COMPANY	OF DE	NVER		-		HLETIC COM	PLEX
					3801 8	BRIGHTON E	BLVD	
3801 BRIGHTON BL	/D		····		FILL	PLACEMENT		
DENVER. COLORADO	80216				Daily Repo	rt Na_5		
ATTN: MR. DON PA					outry hepot	· / ///		
LOCATION	DEPTH	TEST	SPEC. MAX. DENSITY P.C.F.	0. M. C. %	DRY DENSITY P.C.F.	MOISTURE CONTENT %	COMPACTION	SOIL TYP
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e of compaction equipments ber of passes:	t and number	of units	j:				 	· · · · · · · · · · · · · · · · · · ·
kness of liftinche	:S.							
nod of adding moisture:								
of earth moving equipme		er of u	nits: <u>(1)</u>	DOZE	R			
ress Report:								
REQUESTED, OUR FIEL LA PLANT. DUE TO MI LE TO REMOVE OR PLAN NSTRUCT TEMPORARY RA	ECHANICAL F CE AND COMF	PROBLEM PACT AM	MS WITH A MY FILL M	FRON ATERI	T-END LO AL. THE	ADER, THE	CONTRACTOR	WAS UN-
				WIL	LIAM KLE	TT		
:CF							Field Eng	ineer
			Ap	proved	by:	NALD M. M	CIMBED D	

./THOMPSON, INC. SULTING GEOTECHNICAL TERIALS ENGINEERS



VALUE CONTENTS	•	****			Joh No	11870			
						7-13-8	5		
PEDGI COLA DOTTI IN	IC COMPANY	OE	NN/CD		Subject:_Fi	II Control at		VTER	
PEPSI COLA BOTTLIN	G COMPAINT	OF DE	INVER			RIGHTON B			
3801 BRIGHTON BLVD	·					RADING			
DENVER, COLORADO ATTN: MR. DON PAT	80216 TON		· · · · · · · · · · · · · · · · · · ·			t Na.	6		
MEASUREMENTS FROM N.E. COATLER OF LOADING DOCK:	DEPTH *	TEST TYPE	SPEC. MAX. DENSITY **P.C.F.	O. M. C. %	DRY DENSITY P.C.E	MOISTURE CONTENT %	COMPACTION	SOIL	TYPE
RETEST OF #9		NUC	132	8.0	125	7.2	95	SAND	, GRAVE
RETEST OF #8		NUC	127	10.0	120	10.9	95	SAND	V.
50'N & 50'E	4.0	NUC	122	12.0	118	8.5	97		,SILTY
150'N	4.0	NUC	122	12.0	117	13.1	96	• •	• •
125 N & 50 E	3.0	NUC	122	12.0	119	12.5	98	• •	
50'N & 50'E	3.0	NUC	120	13.5	111	14.6	93	SAND	SILTY EY
200 E & 50 S	9.0	NUC	120	13.5	112	13.6	93	• •	11
100 ^t N & 75 ^t E	2.0	NUC	122	12.0	116	11.1	95	11	11
50'N & 75'E	2.0	NUC	122	12.0	116	11.5	95	••	11
RETEST OF #15		NUC	120	13.5	114	11.6	95	• •	, ,
of compaction equipment er of passes: VARI		of units	;:(1) SELF	PROPELL	ED SHEEPS	SFOOT COMPA	CTOR	
iness of liftinches									
od of adding moisture:									
of earth moving equipmen	it and numbi	er of ur	nits:	(1) SC	RAPER (1) DOZER (1) FRONT-E	NO LO	ADER

ess Report:

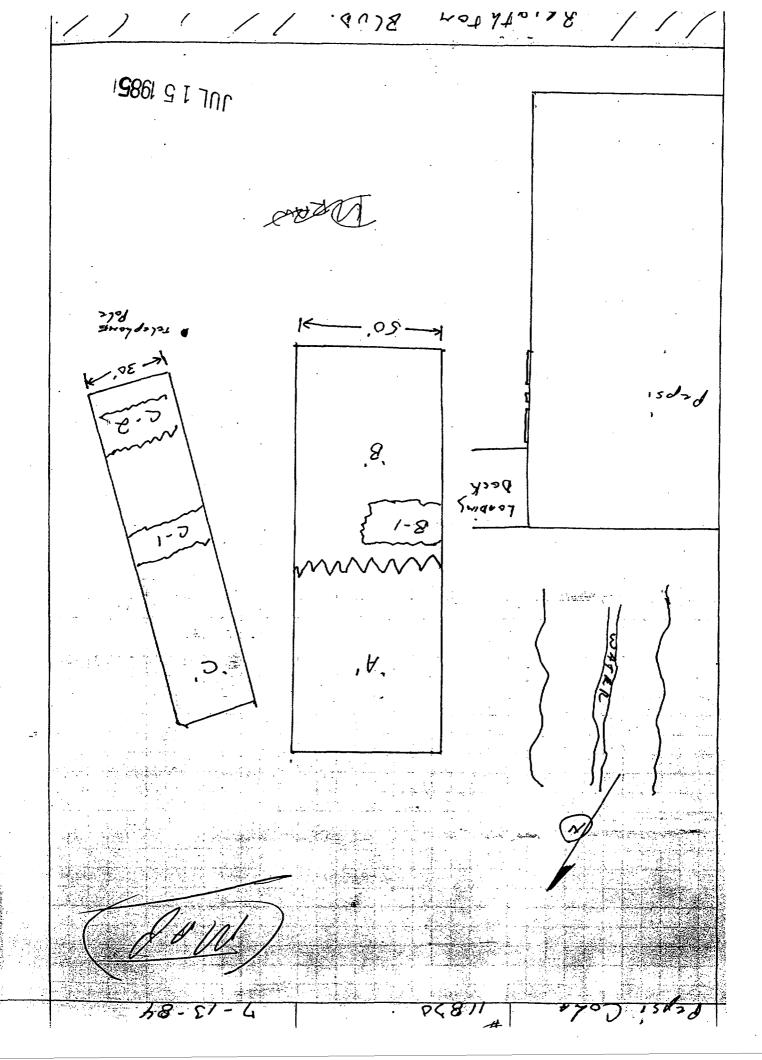
N ARRIVAL AT THE JOB SITE THE CONTRACTOR WAS PLACING FILL IN THE AREA TH OF THE LOADING DOCK IN THIN LIFTS. MATERIAL FROM THE AREA IMMEDIATELY TO THE THEAST WAS BEING USED FOR FILL UNTIL ORGANIC DEBRIS AND SATURATED CLAYS WERE EN-NTERED 4 FEET BELOW TOP OF EXISTING ASPHALT. THE CONTRACTOR EXCAVATED 10 TO 12 T IN THE BORROW AREA AND WAS INFORMED THIS MATERIAL SHOULD NOT BE USED FOR FILL. DE-ROLLING OF THE AREA EAST OF THE BORROW REVEALED SEVERAL SPOTS WHICH DEFORMED ESSIVELY. THE CONTRACTOR WAS INFORMED THE WET SOILS SHOULD BE REMOVED OR STABIL-2. WHICH TEST #16 WAS PERFORMED, THE MATERIAL WAS COMPLETELY DVED AND NEW TESTS IN THIS AREA WILL BE REQUIRED. THE CONTRACTOR WAS INF OF-ROLL THE NATURAL SOILS BEFORE PLACING FILL TO CHECK FOR SOFT AREAS.

ERNOON RAIN, THE CONTRACTOR WAS INFORMED TO LET THE SOIL DRY BEFORE PL FILL. THE CONTRACTOR WAS INFORMED OF ALL

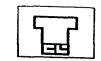
TEST RESULTS.

3ELOW GRADE (FEET)

MAXIMUM DENSITY ESTIMATED BASED UPON A ONE Approved by POINT MODIFIED PROCTOR (ASTM D 1557-78)



_/THOMPSON, INC.
ISULTING GEOTECHNICAL
MATERIALS ENGINEERS



					Job No	11870 7-15-8	5	
					Date Subject: <u>Fi</u>	II Control at		
: PEPSI COLA BOTTLI	NG COMPANY	OF DE	NVER		PEPSI	PLANT - A	THLETIC COM	PLEX
3801 BRIGHTON BLV	D					RIGHTON B	_VD	
					FILL P	LACEMENT		
DENVER, COLORADO ATTN: MR. DON PA			·		Daily Repo	rt Na <u>8</u>		
LOCATION	DEPTH	TEST		O. M. C. %	DRY DENSITY P.C.F.	MOISTURE CONTENT %	COMPACTION	SOIL TY
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e of compaction equipment ber of passes:inche kness of liftinche and of adding moisture:_ of earth moving equipme	s							
ress Report:								
'ISITED THE SITE TO RIAL CAUSED BY HEAV							INT OF THE	FILL
					•			
			_		WILLI	AM KLETT	Field Eng	ineer
F							i wie city	,
			A	pproved	d by:	ONALD M. N	MC OMBER, P	.E.

_/THOMPSON, INC. ISULTING GEOTECHNICAL MATERIALS ENGINEERS



	,					Job No	11870			
					i	Date	7-14-8	5		
						Subject: <u>Fi</u>	II Control at			
:_	PEPSI COLA BOTTLIN	IG COMPANY	OF DE	NVER		PEPSI	PLANT - A	THLETIC CEN	ITER	
	3801 BRIGHTON BLVD)				3801 B	RIGHTON BI	_VD		~~~~·
-	00,00400	00016				FILL P	LACEMENT			
-	DENVER, COLORADO ATTN: MR. DUN PAT	80216 TUN				Daily Repor	1 Na_7_			
=										
	FROM S.E. CORNER OF LOADING DOCK EXCAVATION:	DEPTH *	TEST TYPE	SPEC. MAX. DENSITY P.C.F.	0. M. C. %	DRY DENSITY PCF	MOISTURE CONTENT %	COMPACTION	SOIL	TYPE
7	50'N & 10'E	8.0	SAND	**122.0	12.0	111	13.1	91	SAND	CLAYEY
	80'N & 45'E	8.0	SAND	**112.5	16.5	96	17.0	85	* *	• •
1	RETEST OF #20		SAND	**124.5	11.0	111	6.7	89	SAND	SILTY
1	RETEST OF #21		SAND	**127.5	10.0	108	. 6.5	. 85	11	• •
1	RETEST OF #22		NUC	134***	7.5	124	8.9	93	1.1	11
1	RETEST OF #23		NUC	134***	7.5	124	8.1	93	11	11
1	60'N & 10'E	7.0	NUC	134***	7.5	125	9.1	93	11	11
I										
I										
I										
_		1 4		(1) CAT	r 925	COMPACTO	np			
	of compaction equipment er of passes:			:	020	CON ACTO				
	ness of liftinches									
	d of adding moisture:		TER T	RUCK						·
	of earth moving equipmen				621 5	CRAPER (1) 633 SC	RAPER (1)	FRONT	-END
	ess Report:								LOADE	₹
	CONTRACTOR WAS PLACE ING DOCK DOORS. THE 95'N BY 10'W, 95'N EAST SIDE, EXTENDED COMING. TO A POINT INTIRE LENGTH OF THE EXIMATELY 50' NORTH ENTER OF THE SECOND THEN TESTS IN THE FI SO IT COULD BE USED REMOVE THE FILL TO K THIS AREA, AND THE	S AREA WAS N BY 85'W. THE ENTIRE 100' AWAY, E EAST OF 1 E BAND (110 FROM THE 1 O WAS 20'N TLL AREA FA O BY PEPSI O A DEPTH	BOUN A BA LENGT THUS THIS B O'). TW ELEPH AND 1 AND 1 ON MO OF 8'	DED BY CO ND OF UNT I'H OF THE FORMING AND WAS A VO DEFORM ONE POLE O'E OF TH THE CONT NDAY MORN BELOW GF	ORNERS FOUCHE FILL A RIC A FILL ING A AND E HE TEL TRACTO	WITH THE D MATERIAND MEASHITRIAND AREA 30 REAS EXIENTED EPHONE FOR AND DEIT WAS	E FOLLING AL BORDER SURING 15 GLE WHOSE)' ACROSS STED IN THE THE REMAI POLE WITH EVELOPER A DECIDED T	LOCATIONS ED THIS FI ACROSS ON BASE LIES AND WHICH HIS FILL AF NDER OF TH A RADIUS O GREED TO R	: 15 LL AR I THE ALONG EXTEN REA. I IS SE F ABO EFILL AT A	'W, EA ON SOUTH TO- DED THE FIRST CTION. UT THE LATER
٩	IN THE AREA IN A ME TIONS. THE BAND OF D AS ORIGINALLY PLA	UNTOUCHED	MATE	RIAL WOUL			JAI D. M. MC	OMBED D	E	

3ELOW GRADE

L/THOMPSON, INC.
NSULTING GEOTECHNICAL
D MATERIALS ENGINEERS

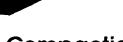


						Joh No	11870		
						Date .	7-17-8	5	
O:_	PEPSI COLA BOTTLI	NG COMPAN	Y OF D	ENVER		-		THLETIC CE	
-							RIGHTON B		
-	3801 BRIGHTON BLV	'D				FILL C	BSERVATIO	N	
	DENVER, COLORADO	80216				Daily Reno	rt Na9		
_	ATTN: DON PATTON					ourly hopo			
;T).	LOCATION	DEPTH	TEST	SPEC. MAX. DENSITY P.C.F.	0. M. C. %	DRY DENSITY P.C.F.	MOISTURE CONTENT %	COMPACTION	SOIL TYP
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\neg	· · · · · · · · · · · · · · · · · · ·								
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				****	WILL	IAM NEC.		Field Eng	ineer
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				Αţ	pproved	l by:RON	NALD M. MC	OMBER, P.	E.

_/THOMPSON, INC. ISULTING GEOTECHNICAL MATERIALS ENGINEERS



					Job No	11870		
					Date	7-18-8	5	
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·						RIGHTON BL		
3801 BRIGHTON BI	_VD					BSERVATION		
DENVER, COLORADO	3 80216							
ATTN: MR. DON F					Daily Repo	rt No10	· · · · · · · · · · · · · · · · · · ·	
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LOCATION	DEPTH	TEST	SPEC. MAX. DENSITY P.C.F.	0. M. C. %	DRY DENSITY PCE	CONTENT %	COMPACTION	SOIL TYP
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EQUESTED, OUR FIELD								5
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NORTH OF THE NORTH	WEST CORNE	R OF T	HE LOADIN	IG DOC	ĸ.			
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				WILL	IAM KLET	<u> </u>	Field Eng	jineer
F							•	
		• •	Aı	pproved	d by:			
			•			ALD M. MC	OMBER, P.	E.





CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE., DENVER, CO 80204 (303) 825-0777

CLIENT: PEPSI COLA BOTTLING CO.	OF	DENVER
3801 BRIGHTON BOULEVARD		
DENVER, COLORADO 80216		
ATT: MR. DON PATTON		

DATE: 07/30/85	JOB. NO	11870	
REPORT NO. 14	SHI	EET_1_OF_1	
SUBJECT PEPSI COLA	ATH ETTC	COMPLEX	
3801 BRIGHT		VARD	
FILL OBSERV	/ATION		

1				LABOR	ATORY		FIELD		
NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
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PEOFCO L) SHI)LOAI	MOISTURE WITHIN	% OF OF	PTIMUM	OF FILE UPON MOIST OBSER TEST DA	PLACEMENTHE CONTINUES TO ACHION TO A	NT, AS WELL A RACTOR TO A HIEVE SPECIFI PRESENT, ANI	S THE TESTS PPLY THE N ED COMP D AT LOCA	S SHOWN AB DECESSARY C ACTION DUR TIONS OTHER	LT OF OUR OBSERVATION OVE, WE HAVE RELIED COMPACTIVE EFFORT AN ING TIMES WHEN OUR R THAN THOSE TESTED. WHETHER THE FILL MEE
CKNESS (E OF EAR	RTH MOVING EQUIPMENT AND NO. OF UNITS: SCRAPER, 1) FRONTEND LOA	DER							
CKNESS (E OF EAR)621	RTH MOVING EQUIPMENT AND NO. OF UNITS: SCRAPER, 1) FRONTEND LOAD REPORT THE CONTRACTOR CONTI	NUED EX	CAVAT						
CKNESS (PE OF EAR)621 OGRESS FEXIST	RITH MOVING EQUIPMENT AND NO. OF UNITS: SCRAPER, 1) FRONTEND LOAD REPORT THE CONTRACTOR CONTIL ING LOADING DOCK. A SMALL	NUED EX	CAVAT	FILL W	IÁS PL	ACED A	CROSS	THE EN	TIRE LOT.
CKNESS (PE OF EAR) 621 CGRESS F EXIST HIS [ESTIN	RITH MOVING EQUIPMENT AND NO. OF UNITS: SCRAPER, 1) FRONTEND LOAD REPORT THE CONTRACTOR CONTING LOADING DOCK. A SMALL DPERATION WAS CURTAILED DOCK WAS NECESSARY. ROCK W.	NUED EX L AMOUN UE TO T AS PLAC	CAVAT IT OF THE BR CED AL	FILL W REAKDOW ONG TH	IAS PL IN OF IE NOR	ACED ACTURE SHE	CROSS EEPSE(E OF)	THE ENDOT CONTINUES	TIRE LOT. PACTOR. NO
CKNESS (PE OF EAR) 621 CGRESS F EXIST HIS [ESTIN	RITH MOVING EQUIPMENT AND NO. OF UNITS: SCRAPER, 1) FRONTEND LOAD REPORT THE CONTRACTOR CONTIL TING LOADING DOCK. A SMALL DPERATION WAS CURTAILED D	NUED EX L AMOUN UE TO T AS PLAC	CAVAT IT OF THE BR CED AL	FILL W REAKDOW ONG TH	IAS PL IN OF IE NOR	ACED ACTURE SHE	CROSS EEPSE(E OF)	THE ENDOT CONTINUES	TIRE LOT. PACTOR. NO
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CKNESS (E OF EAR)621 XGRESS F XIST HIS (ESTIN HICH	RITH MOVING EQUIPMENT AND NO. OF UNITS: SCRAPER, 1) FRONTEND LOAD REPORT THE CONTRACTOR CONTING LOADING DOCK. A SMALL DPERATION WAS CURTAILED DOCK WAS NECESSARY. ROCK W.	NUED EX L AMOUN UE TO T AS PLAC SIDE OF	CAVAT IT OF THE BR ED AL	FILL W REAKDOW ONG TH PEPSI	IAS PL IN OF IE NOR COLA	ACED AG THE SHE TH SIDE	CROSS EPSE(E OF)	THE EN OOT CON THE DRA (LDING.	MIRE LOT. MPACTOR. NO MINAGE CULVE

CTL/THOMPSON, INC.

APPROVED BY RONALD M. MC OMBER P.E.

VILLIAM Y. KLETT III
:ID REPRESENTATIVE



CUEŅĪ:
PEPSI COLA BOTTLING CO. OF DENVER
3801 BRIGHTON BOULEVARD
DENVER, COLORADO 80216
ATT: MR. DON PATTON

WILLIAM Y. KLETT III

LD REPRESENTATIVE

DATE: 0	8/01/85 _{JOB.NO.} 11870
REPORT N	O. 16 SHEET 1 OF 1
SUBJECT	PEPSI COLA ATHLETIC COMPLEX
	3801 BRIGHTON BOULEVARD
	FILL OBSERVATION

		T	T	LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
1.) SH MOISTURE HICKNESS VPE OF EA	MOISTURE WITHIN		INCHES	UPON MOIST OBSER TEST DA	THE CONTR URE TO ACH VER IS NOT I	ACTOR TO A HEVE SPECIFI PRESENT, ANI	PPLY THE NI ED COMPA D AT LOCAT	ECESSARY (ACTION DUI TONS OTHE	SOVE, WE HAVE RELIED COMPACTIVE EFFORT AND RING TIMES WHEN OUR R THAN THOSE TESTED.
LOAD]	REPORT THE CONTRACTOR EXCAVA ING DOCK AND FROM AN AREA ES OF THE FILL WAS PLACED I	250 F	EET NO	ORTH OF	THE	LOADIN	<u>G</u> DOCK	_APP	ROXIMATELY 4
	NECESSARY.								
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IN OUR	OPINION, FILL COMPACTION MEETS SPECIFICATION OPINION, FILL COMPACTION DOES NOT MEET SPECHOULD BE REWORKED								
	OBSERVATION: X) FULL TIME; PERIODIC, ON	CALL BASIS;	□ con	TRACTOR'S	OR CLIENT'S	S REPRESENI	ATIVE ADV	ISED	en automorphic medicines (see automorphic seed), property (1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.

CTL/THOMPSON, INC.

RONALD M. MC OMBER P.E.

APPROVED BY

DELMAR FISCHER

ELD REPRESENTATIVE DF:RS



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PEPSI-COLA BOTTLING CO. OF DENVER 3801 BRIGHTON BOULEVARD DENVER COLORADO 80216 ATTN: MR. DON PATTON

DATE:	09/18/85 _{JOB, NO}	11870	
REPORT NO.	23	SHEET 1 OF 1	
SUBJECT (PEPSI-COLA ATH	LETIC COMPLEX	
	3801 BRIGHTON	BOULEVARD	
1	CTIL OBSEDVATI	∩NÍ	

	·			LABOR	EATORY	FIELD			
TEST NO.	LOCATION	OCATION DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
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PE OF C	MOISTURE WITHIN OMPACTION EQUIPMENT AND NO. OF UNITS:	% OF OI	PTIMUM	OF FILE UPON MOIST OBSER TEST DA	L PLACEMEI THE CONTI URE TO ACK EVER IS NOT ATA ARE NO	NT, AS WELL A RACTOR TO A HIEVE SPECIFI PRESENT, ANI	S THE TESTS PPLY THE N ED COMPA D'AT LOCAT	SHOWN ABO ECESSARY C ACTION DURI TONS OTHER	TOF OUR OBSERVATION OVE. WE HAVE RELIED OMPACTIVE EFFORT A ING TIMES WHEN OUR THAN THOSE TESTED. WHETHER THE FILL ME
	ADDED BY		INCHES	SPECIF	ECATIONS.				
E OF EA	ARTH MOVING EQUIPMENT AND NO. OF UNITS:								
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	APPEARED STABLE WITH NO	SUFT SP	vis.						
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IN OUR	R OPINION, FILL COMPACTION MEETS SPECIFICATION OF THE COMPACTION DOES NOT MEET SPECIFICATION DOES NOT MEET SP								

CTL/THOMPSON, INC.

RONALD M. MC OMBER P.E.



PEPSI COLA BOTTLING CO OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216 ATTN: MR. DON PATTON

DELMAR FISCHER

DF:RS

	09/27/85 _{JOB.NO} . 11870	
REPORT NO	$_{\text{NO}}$ 24 SHEET $\frac{1}{}$ OF $\frac{1}{}$	
SUBJECT	PEPSI COLA ATHLETIC COMPLEX	
	3801 BRIGHTON BOULEVARD	
	FILL OBSERVATION	

TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC	DRY DENSITY PCF	мс %	COM- PACTION %	SOIL TYPE	
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Topological and the second sec	COMPACTION EQUIPMENT AND NO, OF UNITS:	an kalanda ak kang da Japandar (Pelada).		OBSER TEST D	VER IS NOT	PRESENT, AN	AT LOCAT	IONS OTHE	RING TIMES WHEN OUR R THAN THOSE TESTED. N WHETHER THE FILL MEETS	
	ADDED BY			SPECIF	ACAHONS.					
TYPE OF EA	ARTH MOVING EQUIPMENT AND NO. OF UNITS:	ana i para apar 1404	ted many side							
OF M 7+00 2 FEE WILL CONTE	SREPORT AS REQUESTED BY THE CONTINUS 12 INCH CRUSHED ROCK BET AND BACKFILLED WITH 18 INCHES BE BACKFILLED WITH MINUS 6 RACTOR CONTACT US WHEN COMPONENTIAL.	ENEATH CONTINCHES INCH	H PROF RACTOR OF CR CRUSH	POSED (R HAD (RUSHED HED RO(OULVER OVER E ROCK CK AND	T CONS XCAVATE THE F	TRUCTI THI TINAL TED.	S ARE 6 INCI WE SI	OM STATION 6+ A APPROXIMATE HES OF THE EX UGGESTED THE	LY CAVATION
IN OUF	R OPINION, FILL COMPACTION MEETS SPECIFICATIONS R OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATION HOULD BE REWORKED	FICATIONS	AS INDIC	ATED BY OUR	OBSERVATI	ONS AND TE	(S).ON TS			

CTL/THOMPSON, INC.

RONALD M. MC OMBER P.E.

APPROVED BY

LABORATORY



CLIENT: PEPSI COLA BOTTLING CO. OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 10-4-85	JOB. NO	11870	
REPORT NO.	25	SHEET 1 38	1
SUBJECT			

PEPSI COLA PLANT 3801 BRIGHTON BOULEVARD FILL OBSERVATION

				LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
				-					
	MOISTURE WITHINOMPACTION EQUIPMENT AND NO. OF UNITS:			MOIST OBSER	URE TO ACH VER IS NOT I	IEVE SPECIFIE PRESENT, AND	D COMPA	CTION DUR IONS OTHER	COMPACTIVE EFFORT AN HING TIMES WHEN OUR R THAN THOSE TESTED. NWHETHER THE FILL MEE
	ADDED BY			SPECIF	ICATIONS.				
	S OF LIFT RTH MOVING EQUIPMENT AND NO. OF UNITS:		INCHES						
ROOF RO	REPORT AS REQUESTED BY RON T-ROLLING OF MINUS 12-INCH OF CK FILL APPEARED STABLE DU ON 7+00 TO STATION 4+00.	CRUSHE	D_ROC	K FILL	_PLACE	D BENE	ATH_P AREA	ROPOSE OBSERI	ED_BOX_CULVE VED_WAS_EROM
IN OUR	OPINION, FILL COMPACTION MEETS SPECIFICATIONS OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATION BE REWORKED OBSERVATION: [1] FULL TIME; [1] PERIODIC, ON C	S AS INDICA	ATED BY O	JR OBSERVA ATED BY OUR	TIONS AND OBSERVATI	TEST NO.(S) . ONS AND TE	ST NO.(S) .	and the second s	

CTL/THOMPSON, INC.

RONALD M. MC OMBER, P.E.

APPROVED BY

DELMAR FISCHER



CTL/THOMPSON, INC. CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

October 22, 1985

Pepsi Cola Bottling Co. of Denver 3801 Brighton Boulevard Denver, Colorado 80216

Attention: Mr. Don Patton

Subject:

Statement of Substantial Conformance

Fill Operations

Pepsi Warehouse and Sports Facility Additions

and Box Culvert Job Nos. 11,381 and 11,870

Gentlemen:

Our engineering technician was on site during the preparation of subgrade for the box culvert, during the excavation of existing fill in the Warehouse and Sports Facility additions, and during replacement of the fill by compacted soils. The scope of our work included parttime and full-time testing and inspection as requested by Reid Burton. The results of our tests have been reported under our Job No. 11,381 (reports 1 through 21) and Job No. 11,870 (reports 1 through 24). On the basis of our inspections and tests, we believe the fill placement was completed in substantial conformance with the recommendations contained within our reports for this project (Job No. 11,261 dated March 28, 1985 and Job No. 11,277 dated March 14, 1985).

Our firm will continue to test compaction of backfill for the culvert and Fructose Building foundations, as well as inspect footings and test concrete, on a part-time basis as you requested.

Please call if there are any questions regarding this statements.

Very truly yours,

CTL/THOMPSON, INC.

By Ronald M. McOmber, P.E.

RMM: dw

(3 copies sent)

1cc: Reid Burton

P.O. Box 905

Fort Collins, Colorado 80522



CTL/THOMPSON, INC. CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

August 15, 1985

Pepsi Cola Bottling Company of Denver 3801 Brighton Boulevard Denver, Colorado 80216

Attention:

Mr. Don Patton

Subject:

Compaction Test Reports

Athletic Center

Pepsi-Cola Bottling Company 3801 Brighton Boulevard

Denver, Colorado Job No. 11,870

Gentlemen:

On August 3, 5, 6 and 7, 1985, our field representative tested the placement of about 8 to 10 feet of fill in the railroad building area of the addition. On August 8, our Mr. McOmber visited the site because the fill was deforming. We watched the contractor roll the area with a loaded scraper and saw the fill deflect about 2 to 3 inches under wheel loads. The soil rebounded after the scraper passed.

The fill placed was a silty to clayey sand. We believe compaction of this material induced excess pore pressures in the sand. These pressures should dissipate over time. We believe the fill will stabilize within a week or so and that it has adequate density to support the proposed improvements. We recommend all traffic be kept off the fill for at least one week. The area should be proof-rolled with a loaded scraper or other heavy equipment to verify its stability prior to pouring footings or floor slabs.

Please call if you have questions regarding this discussion.

Very truly yours,

CTL/THOMPSON, INC.

Ву

Ronald M. McOmber, P.E. Manager of Construction Services

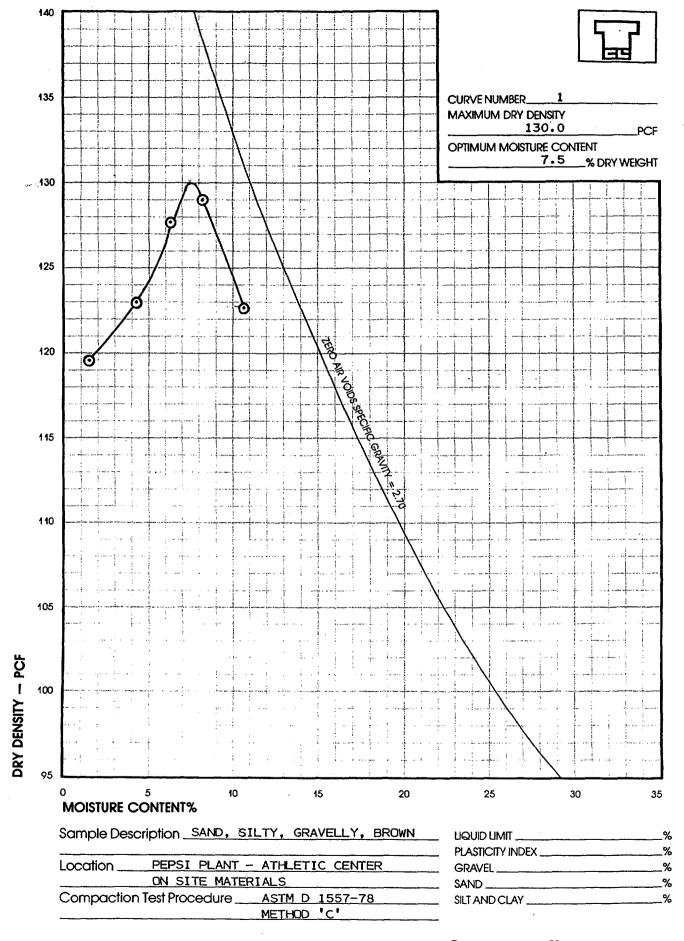
RMM:gl (3 copies sent)

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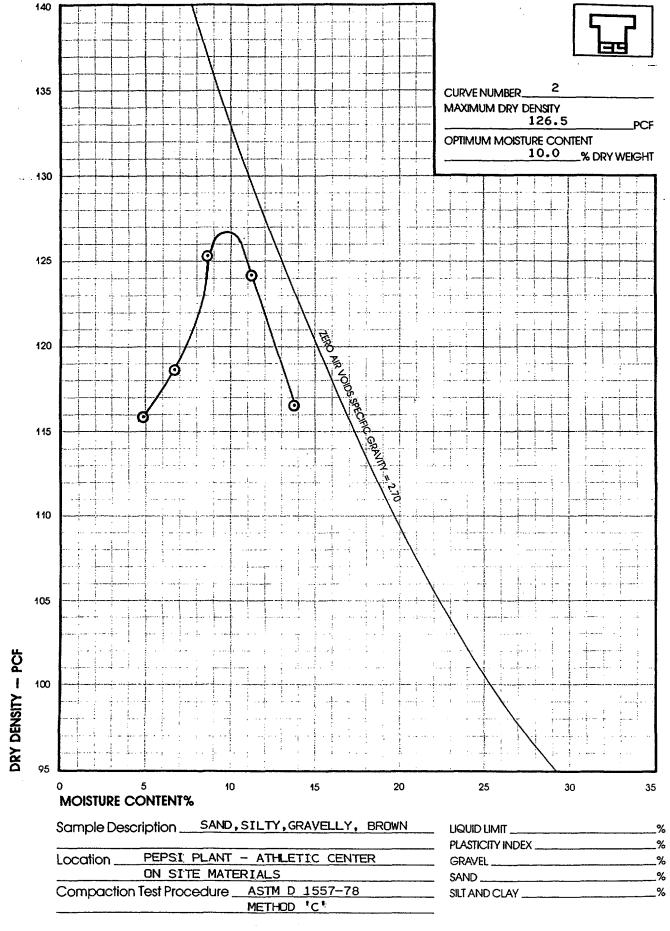
Reid Burton Construction Company

cc:

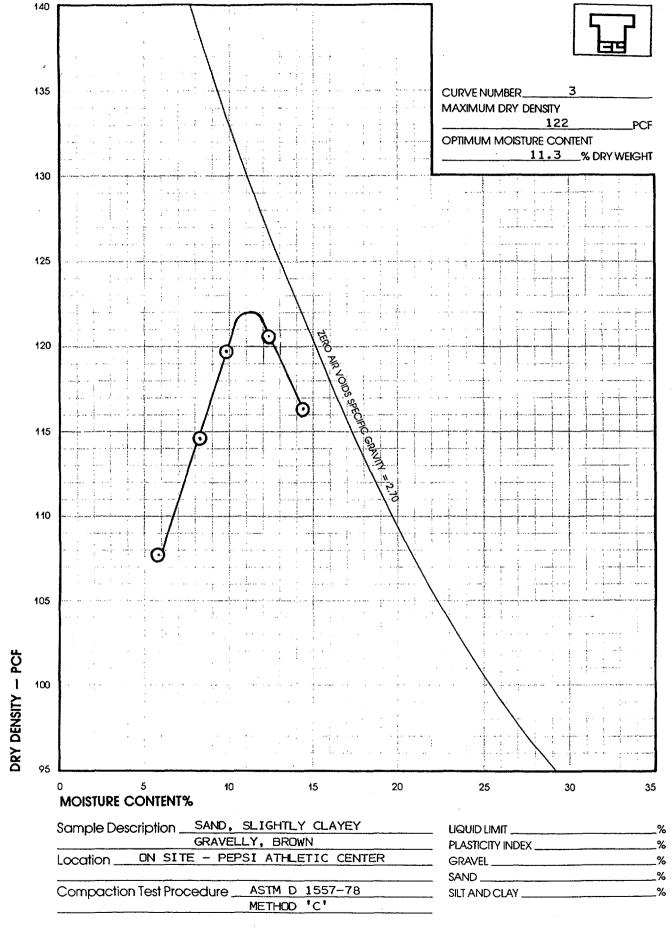
Structural Consultants



Compaction Test Results



Compaction Test Results



Compaction Test Results



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE. DENVER, CO 80204 (303) 825-0777

CLIENT: PEPSI COLA BOTTLING CO. OF DENVER

3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE:	7-26-85 JOB. NO.	11870	
		SHEET 1 OF 1	
SUBJECT	PEPSI COLA ATH	LETIC COMPLEX	
	3801 BRIGHTON	BLVD.	
	FILL OBSERVATI	ON	

				LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	200. NORTH OF SE								CURVE #1
27	CORNER LOADING DOCK	1.0	SAND	124.5	9.5	136	8.9	1004	JOB #11381
28	150'N & 50'W	1.0	SAND	124.5	95	123	10.3	99	
29	200'N & 50'W	2.0	SAND	122	11.0	116	7.5	95	• • • • • • • • • • • • • • • • • • • •
30	150 NORTH	2.0	SAND	122	11.0	126	9.7	1004	
31	200.¹N & 30¹W	4.0	SAND	124.5	9.5	130	8.8	100-	
32	175'N & 15'W	6.0	SAND	122	11.0	134	6.6	100-	
33	175'N & 40'W	7.0	SAND	124.5	9.5	134	6.6	100-	
*	ABOVE NATURAL GRADE (FEET)	·							

SPECIFICATIONS: 95 % OF MAXIMUM ASTM D 1557 MOISTURE WITHIN ± 2 % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (1) SHEEPSFOOT COMPACTOR	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED.
(2) LOADED SCRAPERS	TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS
MOISTURE ADDED BY (1) WATER TRUCK	SPECIFICATIONS.
THICKNESS OF LIFT 4-6 INCHES	
TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: (2) 621 SCRAPERS, (1) DOZER, (1) FRONT END	LOADER
PROGRESS REPORT THE CONTRACTOR BEGAN EXCAVATED AN AREA APPROXIMATELY 150 TO 200 FEET NOT EXCAVATED MATERIAL WAS PLACED ALTERNATELY A STOCKPILE DIRECTLY WEST OF THE EXISTING WAS PLACING IN ONE FOOT LIFTS, ALTERNATING EXCAVATED.	ORTH OF THE EXISTING LOADING DOCK. THE IN LIFTS WITH A RED CLAY MATERIAL FROM LOADING DOCK. THIS STOCKPILE MATERIAL
IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR C IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED AND SHOULD BE REWORKED SCOPE OF OBSERVATION: I PERIODIC, ON CALL BASIS; CONTRA	D BY OUR OBSERVATIONS AND TEST NO.(S)
WILLIAM Y. KLETT, III	IL/THOMPSON, INC.

APPROVED BY

FIELD REPRESENTATIVE



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE., DENVER, CO 80204 (303) 825-0777

CLIENT:

PEPSI COLA BOTTLING CO. OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

WILLIAM Y. KLETT, III

RELD REPRESENTATIVE WK:PV

ATTN: MR. DON PATTON

DATE:	7-27-85 JOB NO. 11870	
REPORT NO	12 SHEET 1 OF 1	
SUBJECT	PEPSI COLA ATHLETIC COMPLEX	
	3801 BRIGHTON BLVD.	
	FILL OBSERVATION	

		T		LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
34	125'N & 20'W OF SE CORNER OF LOADING DOCK	4.0	SAND	122	11.0	125	7.8	100+	CURVE #3
35	110'N & 25'W	5.0	SAND	124.5	9.5	121	8.8	97	CURVE #1 JOB #11381
36	200°N & 15°W	9.0	SAND	122	11.0	128	9.1	100+	CURVE #3
_37	80'N & 10'W	**7.0	SAND	124.5	9.5	124	8.3	100	CURVE #1 JOB #11381
38	60'NORTH	**5.0	SAND	122	11.0	127	9.3	100+	CURVE #3
39	40°NORTH	**2.0	SAND	122	11.0	119	10.1	98	P 9 P 9
40_	30'N & 30'F	**0.0	SAND	122	11.0	125	9.8	100-	. 1 1
*	ABOVE NATURAL GRADE (FEET)								

SPECIFICATIONS:95% OF MAXIMUM _ASTM_D1557-78 MOISTURE WITHIN+ _ DR % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (1)	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATIO OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AN MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEE SPECIFICATIONS.			
TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:				
(2) 621 SCRAPERS, (1) DOZER, (1) FRONT END LOADER				
PROGRESS REPORT EXCAVATION WAS COMPLETED IN THE				
THE EXISTING LOADING DOCK. FILL WAS THEN				
CLAY MATERIAL FROM THE STOCKPILE DIRECTLY	WEST OF THE EXISTING LOADING DOCK, AND			
MATERIAL_STOCKPILED_FROM_EARLIER_EXCAVATIO	N WORK. THIS AREA WAS FILLED IN ALTER-			
_NATING LIFTS OF THESE TWO MATERIALS, AND W				
X) IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR	OBSERVATIONS AND TEST NO.(S) 34-40			
☐ IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED AND SHOULD BE REWORKED				
SCOPE OF OBSERVATION: X FULL TIME; PERIODIC, ON CALL BASIS; X CONTRA	ACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED			
c	TL/THOMPSON, INC.			

APPROVED BY

RONALD M. MC OMBER, P.E.



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE., DENVER, CO 80204 (303) 825-0777

CLIENT: PEPSI COLA BOTTLING CO. OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE:	7-29-85 JOB. NO.	11870	
		SHEET_1_OF1	
SUBJECT	PEPSI COLA ATH	LETIC COMPLEX	
	3801 BRIGHTON B	BLVD.	
	FILL OBSERVATION	ON	

				LABOR	RATORY		FIELD			
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOI	L TYPE
	200'N & 150'W OF SE CORNER									
41	DE LOADING DOCK	9.0	SAND	130	7.5	127	10.1	98	CURVE	#1
1	200'N & 120'W OF SE CORNER									11
42	OF LOADING DOCK	6.0	SAND	122	11.0	121	6.7	99		
			Ì							
										
<u> </u>				·						
			İ							
								 	 	
						Ì			 	
*	BELOW GRADE		ļ			 		-		
MOISTURE THICKNES TYPE OF E	COMPACTION EQUIPMENT AND NO. OF UNITS: SHEEPSFOOT COMPACTOR E ADDED BY (1) WATER TRUCK S OF LIFT 4-6 ARTH MOVING EQUIPMENT AND NO. OF UNITS: 621 SCRAPER, (1) FRONT EN			MOIST OBSER TEST D	URE TO ACH	IEVE SPECIFIE PRESENT, AND	ED COMPAG O AT LOCATI	CTION DUI ONS OTHE	R THAN THO	-
PROGRES	SREPORT THE CONTRACTOR CONCE	VTRATI	ED EFF	ORTS (ON EXC	AVATION	OF T	HE ARI	EA 300	FEET
NOR:	TH OF THE EXISTING LOADING DROXIMATELY 125 FEET WEST OF	DOCK.	FILL	WAS F	LACED	IN AN	AKEA	200 F	HT HP	KIH AN
	SAME ELEVATION AS THE ADJAC					IS AREA	NAS	BRUUG	HI OF	10
	SAME LLEVATION AS THE ADDA		<u> </u>							
IHE										

CTL/THOMPSON, INC.

RONALD M. MC OMBER, P.E.

APPROVED BY

IELD REPRESENTATIVE

WILLIAM Y. KLETT, III



CLIENT: PEPSI COLA BOTTLING CO. OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216 ATT: MR. DON PATTON

WILLIAM Y. KLETT III

DATE:O	7/31/85 JOB NO. 11870
REPORT N	O. 15 SHEET 1 OF 1
SUBJECT	PEPSI COLA ATHLETIC COMPLEX
	3801 BRIGHTON BOULEVARD
	FILL OBSERVATION

				LABOR	PATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	FROM N.W. CORNER OF BLDG.			·					
	AREA			<u> </u>					
43	ON STOCKPILE	1	·		1	•	l		CURYE #4
	200' W. 200'N.		SAND	118	11.5	106	22.7	90.	JOB #11381
44	ON STOCKPILE			•				1	
	225' W. 150' N.		SAND	118	11.5	99	22.7	84	9 \$:
45	ON STOCKPILE			1	1				
	200'W. 100'N		SAND	118	11.5	100	22.7	85	7 1
46	ON STOCKPILE		}	İ				ł	
	225' W. 75' N.		SAND	118	11.5	100	22.7	85	1 1
47	ON STOCKPILE			1	ļ	į			
	200' W. 25'S.		SAND	118	11.5	110	22.7	85	1.1
48	ON STOCKPILE		İ		ľ				
	225' W. 50' S.		SAND	118	11.5	92	22.7	78	1; 1;
]]		1		
			1					}	

SPECIFICATIONS: % OF MAXIMUM	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION						
MOISTURE WITHIN							
	TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS						
MOISTURE ADDED BY	SPECIFICATIONS.						
THICKNESS OF LIFTINCHES							
TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:							
	•						
	•						
OUR FIELD ENGINEER PERFORMED DENSITY TEST CORNER OF THE SITE. ADDITIONAL ROCK WAS DRAINAGE CULVERT.							
☐ IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY	OUR OBSERVATIONS AND TEST NO.[S]						
IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDIC AND SHOULD BE REWORKED	CATED BY OUR OBSERVATIONS AND TEST NO.(\$)						
SCOPE OF OBSERVATION: () FULL TIME; () PERIODIC, ON CALL BASIS; () CO	NTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED						
	CTL/THOMPSON, INC.						

RONALD M. MC OMBER P.E.



CLIENT: PEPSI COLA BOTTLING CO. OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216 ATT: MR. DON PATTON

DATE: 08/02/8	5 JOB. NO	1187	70	
REPORT NO	17	SHEET_	1 OF 1	
SUBJECT PEPSI	COLA ATHL	ETIC CO	MPLEX	
3801	BRIGHTON E	BOULEVAR	RD	
FILL	OBSERVATIO	ON		

				LABO	RATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION	SOIL TYPE
49.	80' N. OF S.E. CORNER OF		ļ — —		<u> </u>			 	CURVE #4
	EXISTING LOADING DOCK	2.0	SAND	118	11.5	127	8.6	100+	JOB #11381
		<u></u>							
*	-ABOVE-GRADE								
YPE OF C 1)SH MOISTURE HICKNES	ATIONS: % OF MAXIMUM MOISTURE WITHIN MOISTURE WITHIN MOISTURE WITHIN MO. OF UNITS: EEPSFOOT COMPACTOR ADDED BY WATER TRUCK S OF LIFT 4-6	% OF O	MUMITA	OF FILL UPON MOIST OBSER TEST D	L PLACEMEN THE CONTR TURE TO ACT EVER IS NOT	NT, AS WELL A RACTOR TO A HIEVE SPECIFII PRESENT, ANI	S THE TESTS PPLY THE NI ED COMPA DAT LOCAT	SHOWN AE CESSARY (CTION DUI IONS OTHE	ILT OF OUR OBSERVATION OVE, WE HAVE RELIED COMPACTIVE EFFORT AFTER RIMES WHEN OUR RIHAN THOSE TESTED. N WHETHER THE FILL MEST
	ARTH MOVING EQUIPMENT AND NO. OF UNITS: ADE 1) 621 SCRAPER 1)DOZER								
ROGRES LOCA ABEA	SREPORT THE CONTRACTOR PLACED TED 300 FEET NORTH OF EXIST ADJACENT TO LOADING DOCK A ES OF ROAD BASE ON THE SUBG	APPRO ING_LO	DALIMAT DADING MPACTE	DOCK.	ADD HE_CON	ITIONAL TRACTOR	EILL BEGA	_WAS_! N_PLA	PLACED IN AN CEMENT DE 6

FIELD REPRESENTATIVE WYK:RS

WILLIAM Y. KLETT III

APPROVED BY RONALD M. MC OMBER P.E.

CTL/THOMPSON, INC.



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE., DENVER, CO 80204 (303) 825-0777

CLIENT:

JIM

IELD REPRESENTATIVE

JC:RS

PEPSI COLA BOTTLING CO. OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216 ATT: MR. DON PATTON

DATE: 08/03/85	JOB. NO	11870				
REPORT NO.			_2			
SUBJECT PEPSI C	OLA ATHLET	IC COMPLEX	<			
3801 BRIGHTON BOULEVARD						
FILL OR	SERVATION					

		, 	ı ———	14801	RATORY	T	CICIO		I
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION	SOIL TYPE
50	84' S. 12 E. FROM N.W. CORNER OF BLDG	10.0	NUC	122	11.0	126	7.5	100+	CURVE #3
51	20' S. 10' E. FROM N.W. CORNER OF BLDG.	8.0	NUC	122	11.0	126	9.1	100+	11
52	15' S. 10'W. FROM N.W. CORNER OF BLDG.	6.0	NUC	122	11.0	121	10.4	99	11
53	60' S. 20 W. FROM N.E. CORNER OF BLDG.	8.0	NUC	122	11.0	124	9.3	100+	1 1
54	56'S. ON CL. FROM N.E. CORNER OF BLDG.	10.0	NUC	122	11.0	123	8.3_	100	t 1
55	28' S. 9'W. FROM N.E. CORNER OF BLDG.	10.0	NUC_	122	11.0	123	9.1	100	1.1
56	85'S. 10'W FROM N.E. CORNER OF BLDG.	8.0	NUC	122	11.0	122	9.2	100	. 11
57	_15'E. FROM N.E. CORNER OF BLDG.	6.0	NUC	122	11.0	123	12.4	100	1 1

*BELOW GRADE 95 % OF MAXIMUM ASTM D-1557-78 THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED MOISTURE WITHIN ______ % OF OPTIMUM UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR 1) SHEEPSFOOT COMPACTOR 1) RUBERTIRE ROLLER OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS SPECIFICATIONS. MOISTURE ADDED BY 1) WATER TRUCK THICKNESS OF LIFT 12 TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: 1)GRADER 1)DOZER 1)SCRAPER PROGRESS REPORT DURING THIS SITE VISIT THE CONTRACTOR WAS PLACING AND COMPACTING-FILL MATERIAL IN 'D' SECTION ON THE EAST END OF PROPOSED BUILDING. 10 IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(5) _____50. 🗇 IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.[S] ____ AND SHOULD BE REWORKED SCOPE OF OBSERVATION: 🗇 FULL TIME; 💢 PERIODIC, ON CALL BASIS; 💢 CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED <u>JOB FOREMAN</u>

CTL/THOMPSON, INC.

APPROVED BY RONALD M. MC OMBER P.E.

JIM CARETTO
FIELD REPRESENTATIVE

JC:RS



CLIENT:

PEPSI COLA BOTTLING CO. OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216 ATT: MR DON PATTON

DATE: 08/	03/85	JC	0B. NO	1	1870		
REPORT NO.						2	
SUBJECT	PEPSI	COLA	ATHL	ETIC (COMPLI	EX	
	3801	BRIGHT	TON B	OULEV	ARD		
	ETIL	ORSERY	ZATTO	N			

FIELD

i			i i	0.00	0110111	L	17422		1
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	NORTH EAST CORNER OF BLDG	•							
58 [.]	50' S. 5' E. FROM N.E. CORNER OF BLDG. EXCAVATION	6.0	NUC	122	11.0	119	9.5	98	CURVE #3
*	BELOW GRADE								
1)SHE	MOISTURE WITHIN 2 COMPACTION EQUIPMENT AND NO OCCURNITY EEPSEDDT 1) RUBBERT I RE ROLLE ADDED BY 1) WATER TRUCK SOF LIFT 12	ER .		UPON MOIST OBSER TEST D	THE CONTR TURE TO ACH EVER IS NOT	ACTOR TO A HEVE SPECIF PRESENT, AN	APPLY THE NE IED COMPA D AT LOCATI	CESSARY (CTION DUI IONS OTHE	SOVE, WE HAVE RELIED COMPACTIVE EFFORT AND RING TIMES WHEN OUR R THAN THOSE TESTED. N WHETHER THE FILL MEETS
	ARTH MOVING EQUIPMENT AND NO. OF UNITS: ADER. 1.)DOZER. 1.)SCRAPER								
ROGRESS SECT(S REPORT _THE_CONTRACTOR_CONTIN ON_ON_THE_EAST_END_OE_PROPO	UED_P	LACEME	ENT AND	COM	PACTIO	N OF F	ILL M	ATERIAL IN 'D
				a i garging population i podržatnicki sa sta s	anamana, appendi a hannori e de el	e e e e e e e e e e e e e e e e e e e	nger filip plan der laggerhalte between der		
				THE SECOND STATE OF THE SECOND		T Tyman st	* ************************************		
IN OUR AND SI	R OPINION, FILL COMPACTION MEETS SPECIFICATIONS R OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATION HOULD BE REWORKED OBSERVATION: [1] FULL TIME; REPRIODIC, ON C	FICATIONS	AS INDICA	ATED BY OUR	R OBSERVATI	IONS AND T	EST NO.(S)		

CTL/THOMPSON, INC.

APPROVED BY RONALD M. MC OMBER P.E.

LABORATORY



CLIENT:
PEPSI COLA BOTITLING CO. OF DENVER
3801 BRIGHTON BOULEVARD
DENVER, COLORADO 80216
ATT: MR. DON PATTON

JIM CARETTO

IELD REPRESENTATIVE

JC:RS

DATE:_08.	Z05/85 JOB. NO	11870
	19SHEET_	
	PEPSI COLA ATHLETIC	
	3801 BRIGHTON BOUL	EVARD
	ETIL ORSERVATION	

			T	LABO	RATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION	SOIL TYPE
59	30' S. 30' E. FROM N.W.	4.0	NUC	122	11.0	123	9.6	100	CURVE #3
60	40'S 15'E. FROM N.W. 1722 CORNER OF 'E' SECTION		NUC	122	11.0	123	10.6	100	1 1
61	10'S 10'E FROM N.W	2.0	NUC	122	11.0	123	9.4	100	0 1
62	30 S. 5'E.FROM N.W. CORNER OF 'E' SECTION	2.0	NUC_	; _122	11.0	124	10.0	100+	11
*	BELOW GRADE							<u> </u>	

MOISTURE WITHIN	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS
MOISTURE ADDED BY	SPECIFICATIONS.
PROGRESS REPORT DURING THIS SITE VISIT THE CONTRAC	D¹ SECTION.
X IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED AND SHOULD BE REWORKED COPE OF OBSERVATION: □ FULL TIME; □X PERIODIC, ON CALL BASIS; □X CONTRA	DBSERVATIONS AND TEST NO.(S) 59—62 D BY OUR OBSERVATIONS AND TEST NO.(S)
•	

APPROVED BY

RONALD M. MC OMBER P.E.

FIELD REPRESENTATIVE

JC:RS



CLIENT
PEPSI COLA BOTTLING CO. OF DENVER
3801 BRIGHTON BOULEVARD
DENVER, COLORADO 80216
ATT: MR DON PATTON

DATE: C	08/06/85 NO	JOB	. NO	11870		
REPORT	NO	20	SHF	1 OF	1	
	PEPSI C	DLA A	THLETIC	COMPL		
	FILL OB					

				LABOR	RATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	омс %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
63	2'N. 10'E. FROM S.W.	2.0	NUC	122	1.0_	121	9.6	99	CURVE #3
64	2'N, 2'E, FROM S.W.	2.0	NUC	122	11.0	123	9.6	100	1 1
65	30'S ON CL. OF 'E' SECTION	I .	NUC	122	11.0	122	11.0	100	
66	45'W 25' E. OF 'E' SECTION	0. 0.∴	NIC	122	11.0	122	11.0	100	• •
67	10' S. 10'. E. OF 'E'	0.0	NUC_	122	11.0	121	11.0	99_	11
				ļ					
*	BELOW GRADE								

SPECIFICATIONS: 95 % OF MAXIMUM ASTM D= 1557- MOISTURE WITHIN 2 % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: 1) SHEEPSFOOT	OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS
MOISTURE ADDED BY	SPECIFICATIONS.
TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:	
1)GRADER 1)LOADER 1)SCRAPER	
EXCAVATION.	
() IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY ON THE OWNER OF THE OWNER OF THE OWNER	OUR OBSERVATIONS AND TEST NO.(S)63-67. CATED BY OUR OBSERVATIONS AND TEST NO.(S) WITRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISEDMIKE_KRAUSE
, , , , , , , , , , , , , , , , , , ,	
	CTL/THOMPSON, INC.
JIM_CARETTO	Control of the Contro

APPROVED BY RONALD M. MC OMBER P.E.



PEPSI COLA BOTTLING CO. OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216 ATT: MR. DON PATTON

DATE:	08/07/85 JOB NO. 11870	
REPORT N	1021SHEET_1_OF1	
SUBJECT	PEPSI COLA ATHLETIC COMPLEX	ζ
	3801 BRIGHTON BOULEVARD	
	ETIL OBSERVATION	

		-		LABO	RATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
68	15'W. 20'N. FROM S.E.			**					SAND GRAVELLY
	CORNER OF BLDG. EXCAVATION	5.0	NUC	132	8.0	128	6.6	97	
69	30' W. 40' N. FROM S.E.			**					11
	CORNER OF BLDG.EXCAVATION	5.0	NUC	132	8.0	127	7.8	96	
70	25' E. 15'N. FROM S.E.								CURVE #3
	CORNER OF BLDG EXCAVATION	3.0	NUC	122	11.0	124	9.1	100+	
71	30' W 15' N. FROM S.E.								CURVE #3
	CORNER OF BLDG.EXCAVATION	3.0	NUC	122	11.0	123	10.2	100	
72	25'W. 5' N. FROM S.E.			**					SAND, GRAVELL
	CORNER OF BLDG. EXCAVATION	1.0	NUC	132	8.0	126	6.3	95	
73	W. 10' N. FROM S.E			**					
	CORNER OF BLDG. EXCAVATION	1.0	NUC	132	8.0	127	6.4	96	1 1
				1	1	1			
							<u> </u>		
*	BELDW GRADE								
**	MAXIMUM DENSITY ESTIMATED E	BASE L	PON A	ONE-F	TNIO	STANDAR	D PRO	dtor.	

SPECIFICATIONS: 95 % OF MAXIMUM ASTM D-1557-78 MOISTURE WITHIN 2 % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: 1) SHEEPSFOOT ROLLER MOISTURE ADDED BY 1) WATER TRUCK THICKNESS OF LIFT 6-12 INCHES TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: 1) GRADER 1) SCRAPER 1) DOZER	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS SPECIFICATIONS.
PROGRESS REPORT DURING THE OVER EXCAVATION IN THE GROUND WATER WAS ENCOUNTERED NEAR THE BOTTOM STABILIZED WITH 6 TO 8 INCHES OF CRUSHED ROCONTINUED FILL PLACEMENT IN THE EAST PORTION	M OF THE EXCAVATION. THIS AREA WAS CK PRIOR TO FILL PLACEMENT. THE CONTRACTOR
IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED AND SHOULD BE REWORKED SCOPE OF OBSERVATION: To FULL TIME; To PERIODIC, ON CALL BASIS; TO CONTRA	D BY OUR OBSERVATIONS AND TEST NO.(S)

CTL/THOMPSON, INC.

APPROVED BY RONALD M. MC OMBER P.E.

JIM CARETTO
FIELD REPRESENTATIVE



CLIENT: PEPSI COLA BOTTLING CO. OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

DATE:	08/08/85	. JOB. NO	11870		
	PEPSI COLA	22	1	1 EEX	-
	3801 BRIGH				
	FILL OBSER	RVATIO	4		

FIELD

TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF **	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
74	30 W. 15 N. FROM S.W.								SAND, GRAVELLY
	CORNER OF BLDG.EXCAVATION	0.6	NUC	132	8.0	126	6.8	96	
75	5' W. 10' N. FROM S.E.		ĺ		1				
	CORNER OF BLDG.EXCAVATION	0.6	NUC	132	8.0	127	7.1	96	
76	5' W.25' N. FROM S.E.		l		1	ĺ			
	CORNER OF BLDG. EXCAVATION	0.6	NUC	132	8.0	127	6.2	96	
				[Į		į		
			ļ				<u> </u>	<u> </u>	
					[ļ		
		 							
		l			į	1	1	ļ	
*	<u> </u>		 			ļ	 	<u> </u>	
•	BELOW GRADE	ļ	Į		ļ	ļ		1	
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			}			ļ	1		
		L		L		L	<u> </u>	<u> </u>	
1)SH	ARTH MOVING EQUIPMENT AND NO. OF UNITS:		INCHES	MOIST OBSER TEST D	URE TO ACH	IIEVE SPECIFI PRESENT, AN	ED COMPA D AT LOCATI	CTION DUF ONS OTHER	COMPACTIVE EFFORT AND RING TIMES WHEN OUR RIHAN THOSE TESTED. N WHETHER THE FILL MEETS
1)50	RAPER 1)GRADER								
IN TH	SREPORT AS REQUESTED OUR FIELD HE EAST PORTION OF THE BUILD URTHER TESTING WAS NEEDED A	DING E	EXCAVA	TION.	RMED (COMPACTIELD E	FION T	ESTS (ON FILL PLACEME S INFORMED
	R OPINION, FILL COMPACTION MEETS SPECIFICATIONS								
	R OPINION, FILL COMPACTION DOES NOT MEET SPECIF	FICATIONS	AS INDICA	TED BY OUR	OBSERVATI	ONS AND TE	{ 2}.O M T2		The second secon
AND S	HOULD BE REWORKED								

SCOPE OF OBSERVATION:

FULL TIME;

EXPERIODIC, ON CALL BASIS;
EX CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED

MIKE KRAUSE

CTL/THOMPSON, INC.

APPROVED BY RONALD M. MC OMBER P.E.

LABORATORY

FIELD REPRESENTATIVE

JIM CARETTO



CTL/THOMPSON, INC. CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

July 24, 1985

Pepsi Cola Bottling Company of Denver 3801 Brighton Boulevard Denver, Colorado 80216

Attention:

Mr. Don Patton

Subject:

Laboratory Test Results Proposed Import Fill Pepsi Plant Area 3801 Brighton Blvd. Denver, Colorado Job No. 11870

Gentlemen:

This letter transmits the results of laboratory tests we performed on a sample of soil submitted to our laboratory on July 11, 1985. The sample submitted was obtained form a stock pile at Potomac and Bayou Streets in Aurora. The sample was tested in accordance with applicable American Society for Testing Materials (ASTM) standards. Test results for percent passing the No. 200 sieve and Atterberg limits have been determined.

	Passing No. 200 Sieve	Liquid Limit	Plasticity Index
Northwest corner: Clay, Sl. Sandy, Brown	91	40	23
Center: Clay, Sl. Sandy, Brown	82	50	31

The laboratory test results and our experience indicate the soils are not satisfactory for use as structural fill in areas adjacent to the Pepsi Plant. The sample contains more clay and silt sized particles than recommended for this project. The clay portion of the soil is too plastic with a plasticity index of 23 to 31 and is expansive when wetted and, therefore, not suitable for use as structural fill under slabs.

Should you have any questions regarding the test results, please call. Very truly yours,

CTL/THOMPSON, INC.

Ву

Ronald M. McOmber, P.E. Manager of Construction Services

RMM:cf

(3 copies sent)

1cc Reid Burton Construction Company 1cc Structural Consultants

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"L/THOMPSON, INC. NSULTING GEOTECHNICAL D MATERIALS ENGINEERS

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1	==

						Job No			
						Date	3-11-85	5	
	·					Subject: Fi	II Control at		
آ 0: ِ	PEPSI COLA BOTTLI	NG CO. OF D	ENVER	R		PEPSI (COLA PLANT	-BOX CULVE	RT.
	ZOAL PRICHTON RIV	(D)	•			3801 B	RIGHTON BL	.VD	
	3801 BRIGHTON BLV	<u> </u>				DENVER	, COLORADO) .	
	DENVER, COLORADO			·		Daily Repor	rt Na:1		
	ATTN: MR. DON PA	TTON				7 - 4 :			-
ST O.	LOCATION	DEPTH 7	TEST	SPEC. MAX. DENSITY P.C.F.	O. M. C. %	DRY DENSITY P.C.F.	MOISTURE CONTENT %	COMPACTION	SOIL TYP
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-									
									
_									
mt ich ithe pe	of compaction equipment per of passes: kness of liftinches od of adding moisture: of earth moving equipment ress Report: SITE WAS INSPECTED	nt and number	of u	nits:(1)	BACK	HOE (1)	•		CAL
MP NO	ANY. THE EASTERN 2	00 TO 300 FE EMENT OF AN	EET (OF THE SI	TE HA	S BEEN E	XCAVATED T	NATURAL O	LEAN
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									*
				•					
					DAN	DOWNITNG	& MARK RO	ENEEL DT	
				-	DAIN	COMISTING	O PERIOR PO	Field Eng	ineer
. M	R:cf							•	
+ 1°€	• • • • • • • • • • • • • • • • • • •			Aı	pprove	d by:	· · · · · · · · · · · · · · · · · · ·		
						-	ONALD M.	MC OMBER, F	.E.

_/THOMPSON, INC. ISULTING GEOTECHNICAL MATERIALS ENGINEERS



					Job No	11381			
						3-13-85	5		
						II Control at			
PEPSI COLA BOTTLI	NG CO. OF	DENVE	₹		-	COLA BOX (
ZOO1 BOICUTON BLV	<u> </u>				3801 B	RIGHTON BL	.VD		
3801 BRIGHTON BLV	ט				DENVER	, COLORADO)		
DENVER, COLORADO	80216				Daily Repor	rt No. 2			
ATTN: MR. DON PA	TTON				y				
ATTN: MR. DON PATTON LOCATION cof compaction equipment and not ber of passes:	DEPTH	TEST TYPE	SPEC. MAX. DENSITY P.C.F.	O. M. C. %	DRY DENSITY P.C.F.	MOISTURE CONTENT	COMPACTION	N SOIL TY	
		 		 					
		 	 						
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				<u></u>		<u> </u>		<u> </u>	
e of compaction equipment	and number	of units		•					
:kness of liftinches	·								
had of adding maisture:		****							
of earth moving equipmen			nits: <u>(1)</u>	LOADE	R (2) TF	RUCKS			
PRESS REPORT: THE TIME OF INSPECTION AVATED YESTERDAY. THE FEET WEST. THE DEPT S FILL AREA WAS PROOF DRMATION OF THE FILL	ON THE CON HIS AREA I TH OF THIS FROLLED W	TRACTO S FROM FILL ITH A	OR WASCPLA THE EXIS VARIES FR	CINGMI STING ROM 1	INUS 6 IN CULVERT TO 4 FEE	YCH ROCK I TO APPROX	(IMATELY KNESS.		
æ	·				Dan dow	VNING	Field Eng	ineer	
.									
•			A	proved	l by:			· · ·	
			•		RON	NALD M. MC	OMBER, P.	E.	

_/THOMPSON, INC. ISULTING GEOTECHNICAL) MATERIALS ENGINEERS



					Job No	11381	4		
					Date	3-14-85		<u>.</u>	
					Subject:_Fi	II Control at	•		
): PEPSI COLA BOTTLI	NG CO. OF	ENVER	2		PEPSI	COLA - BC	X CULVERT		
	. =!!				3801 E	BRIGHTON	BOULEVARD		
3801 BRIGHTON BOL	LEVARD				DENVER	R, COLORAD	0		
DENVER COLORADO	80216				Daily Repor	rt Na <u>3</u>			
ATTN: MR. DON PA	TTON		•						
LOCATION ACCESS RAMP	ELEVATION	TEST TYPE	SPEC. MAX. DENSITY P.C.F.	0. M. C. %	DRY DENSITY P.C.F.	MOISTURE CONTENT %	COMPACTION	SOIL	TYP
18'W OF EXISTING			100.5	ء ج	105	1	00	CURV	E #1
HEAD WALL & 24'N OF CULVERT. OF BOX	5159.5	NUC	127.5	8.5	125	11.1	98	 -	
CULVERT. 24'W OF EXISTING HEAD WALL & 24'N OF C.L. OF BOX CULVERT	5158.5	NUC	127.5	8.5	122	11.2	96		11
									
								<u> </u>	
nber of passes:inchesthod of adding moisture:_	s.	of units	: <u>WHFFI</u>	ROLLI	NG_WITH_	A LOADER			
e of earth moving equipme		er of u	nits: <u>(1)</u>	BACKH	OE (1) I	LOADER			
gress Report:									
T THE TIME OF OUR INS = MINUS 6-INCH ROCK. CCESS RAMP WILL START ,M. AND FILL PLACEMEN MPORTED, SANDY CLAY. RACTOR WAS INFORMED O	WE WERE IN LATER TOD IT HAD STAR THE ABOVE	NFORME AY. 1 TED ON TESTS	ED BY RON THE SITE N THE ACC WERE PE	CARPI VAS RI ESS R	ENTER FII EINSPECTI AMP. TH	LL PLACEME ED AS REQU E FILL MAT	ENT FOR THE JESTED AT 4 TERIAL IS A	: : 00 .N	
						DAN DOW			
		٠					Field Engi	ineer	
			Ap	proved	d by:				

D:PV

RONALD M. MC OMBER, P.E.

ITHOMPSON, INC. SULTING GEOTECHNICAL MATERIALS ENGINEERS



					Job No	11381	4		
					Date	3-15-85			
					Subject: Fi	II Control at			
PEPSI COLA BOTTI	LING CO. OF	DENV	ÆR		PEPSI (COLA - BOX	CULVERT		
3801 BRIGHTON B			. •			RIGHTON - B			
JOOT BRIGHTON DA					DENVER	, COLORADO	<u> </u>		
DENVER COLORAD					Daily Repor	rt Na <u>-4</u>	·		
ATTN: MR. DON I	PATTON								
LOCATION ACCESS ROAD	ELEVATION	TEST TYPE	SPEC. MAX. DENSITY P.C.F.	O. M. C. %		MOISTURE CONTENT %	COMPACTION %	SOIL	TYP
118'W OF EXISTING	5162.5	NUC	127.5	8.5	116	8.9	91	CURVE	= #1
HEAD WALL & 25'N OF C.L. BOX CULVERT	0.02.0								
CULVERT 45'W OF EXISTING HEAD WALL & 25'N OF C.L. OF BOX	5164.5	NUC	127.5	8.5	122	9.8	96	• •	• •
CULVERT									
					······				
	<u></u>		<u> </u>				<u> </u>	<u> </u>	
e of compaction equipment	and number	of units	: WHEEL F	ROLLIN	G WITH L	OADER			
ber of passes:	······································								
kness of liftinches									
hod of adding moisture:			-:4						
of earth moving equipment	ni ona numpi	er of u	nirs:				· · · · · · · · · · · · · · · · · · ·		
jress Report:									
E ABOVE TESTS WERE PE ST #3 INDICATES UNSAT E CONTRACTOR WAS ADVI	TISFACTORY .	COMPA	CTION. 1	EST #	44 INDICA	TES SATIS	FACTORY COL	MPACT	ION.
		•							
						DAN DOWNI	NG		
							Field Eng	neer	
			A	pprove	d by:				

:PV

L/THOMPSON, INC.

VSULTING GEOTECHNICAL
D MATERIALS ENGINEERS



					Job No	11381			
					Date	3-18-85	 		
					•	II Control at		 -	
0: PEPSI-COLA B	OTTLING CO	. OF C	ENVER			DLA, BOX C			
3801 BRIGHTO	N BOULEVARI	D			3801 BR	IGHTON BOU	JLEVARD.		
					DENVER,	COLORADO			
DENVER, COLO ATTN: MR. D					Daily Repo	rt Na5	5		
ATTIV. 141. D	ON TATION								
T W. OF EXISTING HEAD WALLLOCATION FROM C.L. OF BOX	ELEVATION	TEST TYPE	SPEC. MAX. DENSITY P.C.F.	0. M. C. %	DRY DENSITY P.C.F.	MOISTURE CONTENT %	COMPACTION %	SOIL	TYP
RETEST OF #3	η	NUC	127.5	8.5	122	8.3	95	CURV	E #1
	5160.5		<u> </u>				95	11	11
20'W & 30'N	5168.5		Ī	8.5	121	8.9		.,	
50'W & 30'N	5167.0	ĺ	127.5		125	7.9	98	,,	• •
6'W & 35'N	5172.5	1		8.5	126	5.8	98		11
45'W & 30'N	5170.5	NUC	127.5	8.5	117	8.3	91		
				 				 	<u> </u>
				-				 	
				 				 	
		<u> </u>					<u> </u>	 	
	<u> </u>	<u> </u>		<u> </u>	l	<u> </u>			
e of compaction equipment		of units	: WHEEL F	ROLLIN	IG WITH F	RONT END	LOADER		
nber of passes:VAR	IED				_				
ckness of lift <u>12</u> inches	i.								
hod of adding moisture:_							· · · · · · · · · · · · · · · · · · ·		
e of earth moving equipmen	nt and numbe	er of u	nits: <u>(1)</u> E	BACKHO	F (1) DO	7FR (1) 1	ΩADER		
gress Report:									
E ABOVE TESTS WERE PE									
DICATE SATISFACTORY (E TEST RESULTS AND WA									:
PERFORMED.	S ADVISED	TO RE	COMPACT		. AREA OI	1651 #9.	A NEILSI	,, T, — C	
•									
					C	AN DOWNIN			
							Field Eng	ineer	
			A -	neau a	hu-				
			₩ţ	thi naed	by:				

:PV

RONALD M. MC OMBER, P.E.

/THOMPSON, INC.
ISULTING GEOTECHNICAL
MATERIALS ENGINEERS



						Job No Date		35		
1:_	PEPSI-COLA BOTTLIN	G CO. OF D	ENVER	·	;	•	II Control at -COLA BOX			
	3801 BRIGHTON BLVD						BRIGHTON E			
•	DENVER, COLORADO ATTN: MR. DON PAT				! 	Daily Repor	t Na6			
T .	LOCATION	DEPTH	TEST TYPE	SPEC. MAX. DENSITY P.C.F.	O. M. C. %	DRY DENSITY P.C.F.	MOISTURE CONTENT %	COMPACTION	SOIL	TYPE
	ON SITE STOCKPILE		NUC	127.5	8.5	122	8.1	96	CURVE	#1
	ON SITE STOCKPILE		NUC	127.5	8.5	126	5.2	99	• •	11
	ON SITE STOCKPILE		NUC	127.5	8.5	123	5.5	97	• •	11
	ON SITE STOCKPILE		NUC	127.5	8.5	122	4.5	96	• •	11
								·		
1										
						·				
							:			
					<u> </u>	<u> </u>			L	
1b ck	of compaction equipment er of passes:inches iness of liftinches od of adding moisture:_ of earth moving equipmen	• .		·	<u></u>	TRUCKS	(1) LOADER	}		
	ess Report:	sile tielle								

SITE WAS VISITED AS REQUESTED BY RON CARPENTER WITH REID BURTON CONSTRUCTION PANY. MOST OF THE EXISTING CONCRETE SLABS ALONG THE SOUTH BANK HAVE BEEN KEN INTO APPROXIMATELY 12 INCH PIECES AND STOCKPILED FOR LATER USE. THIS BROKEN CRETE HAS ALSO BEEN PLACED AGAINST THE BOTTOM OF THE SOUTH BANK TO BE USED AS —RAP. THE ABOVE TESTS WERE PERFORMED AS REQUESTED TO DETERMINE THE IN PLACE ISITY OF THE IMPORTED FILL WHICH HAS BEEN STOCKPILED.

DAN DOWNING

Approved t

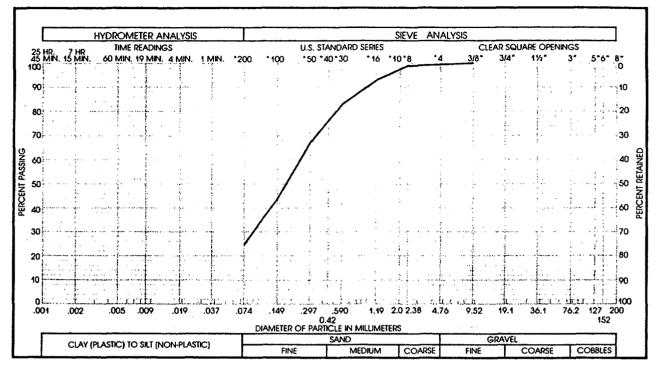
CF

/THOMPSON, INC. SULTING GEOTECHNICAL MATERIALS ENGINEERS



				Job No	11381			
			!	Date	4-29-8	5		
				Subject: <u>Fi</u>	II Control at			
PEPSI COLA BOTTLING COMPAN	Y OF DE	NVER			-COLA, BO			
3801 BRIGHTON BLVD					BRIGHTON (
DOOT BRIGHTON BEAD				DENVE	R, COLORA	00		
DENVER, COLORADO 80216 ATTN: MR. DON PATTON	· · · · · · · · · · · · · · · · · · ·		i	Daily Repor	rt Na	7		
ATTN: MR. DON PATTON							, .	
LOCATION	TEST	SPEC. MAX. DENSITY P.C.F.	0. M. C. %	DRY DENSITY PCF	MOISTURE CONTENT %	COMPACTION %	SOIL	TYPE
ON SITE STOCKPILE	NUC	127.5	8.5	123	9.0	96	CURVE	#1
ON SITE STOCKPILE	NUC	127,5	1	116	13.4	91	• •	11
ON SITE STOCKPILE	NUC	127.5		117	12.4	92	11	11
ON SITE STOCKPILE	NUC	127.5		119	10.6	93	• •	11
		<u> </u>						
			<u> </u>					
			<u> </u>	<u> </u>				
			<u> </u>	<u> </u>	<u> </u>		<u> </u>	
e of compaction equipment and numb	or of unita							
ber of passes:								
kness of liftinches.	-							
hod of adding moisture:	_	<u></u>		· · · · · · · · · · · · · · · · · · ·		·		
equipment and nui	mber of u	nits:						
ress Report:								
: ABOVE TESTS WERE PERFORMED	AS REQUE	ESTED BY	RON C	ARPENTER	WITH REIG	BURTON CO	NSTRU	CTION
CARPENTER WAS INFORMED OF T								
·								
			·	DAN D	DWNING	Claid E		
CF						Field Eng	ii iee (
		A	pproved	l by:				
		• • • • • • • • • • • • • • • • • • • •		RONAL	_D M. MC C	OMBER, P.E.		_





Sample of PROPOSED IMPORT FILL	GRAVEL0_%	SAND 76 %
rom PEPSI-COLA CURVE NO. 2	SILT & CLAY 24 %	LIQUID LIMIT _N_L%
	PLASTICITY INDEX	N.P. %

ſ		н	YDRON	IETER A	NALYSIS	3						SIEVE	ANALY	SIS]
25 I	HR.	7 HR		READING					U.S. ST	ANDARD	SERIES			CL	EAR SQL		ENINGS		_
45 I	MIN. 1	7 HR 5 MIN.	60 MIN	19 MIN.	4 MIN	1 MN.	*200	*100	•50	40*30	* 16	10*8	•4	3/8*	3/4"	11/2"	3"	5"0"	8
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								IAMETER	0	.42								152	
г							<u>_</u>	MAINICIEK	OF PAR	SAND	VIILLIMIE	EKO			GRAVEL				7



PLASTICITY INDEX ___

_% SAND ___

SILT & CLAY______% LIQUID LIMIT ___

Sample of _

From_

"L/THOMPSON, INC. NSULTING GEOTECHNICAL D MATERIALS ENGINEERS



						Job No	11381		
							5-24-8	35	
							II Control at		
·o:_	PEPSI COLA BOTTLIN	IG COMPANY	OF DE	NVER		-	-COLA, BO		
•						3801	BRIGHTON E	3LVD	
-	3801 BRIGHTON BLVD)		· · · · · · · · · · · · · · · · · · ·		ROCK	FILL PLACE	EMENT	
	DENVER, COLORADO	80216				Daily Reno	rt No. 8		
•	ATTN: MR. DON PAT					burry hepor	· · · · · · · · · · · · · · · · · · ·		
ST O.	LOCATION	DEPTH	TEST TYPE	SPEC. MAX. DENSITY P.C.F.	O. M. C. %	DRY DENSITY RGE	MOISTURE CONTENT %	COMPACTION	SOIL TY
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								J W	
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		<u></u>				<u> </u>	<u> </u>		
	of compaction equipment	and number	of units	:			······································		
	per of passes:								·
	ness of liftinches								
	od of adding moisture:				•				
Эе	of earth moving equipmen	at and numb	er ot u	nits:					
)gr	ress Report:								
ACI D I EM MMI IN V NCI ME	EQUESTED, WE MET WI EMENT OF WASTE CONC PREVIOUSLY BROKEN TO IN AN AREA FROM THO ENDED THE INITIAL L CH LIFT OF MINUS 6 ILL USE THE SAME PRO RETE IS EXHAUSTED AN LARGER PIECES (GREA AREA AND RON SAID	RETE AND M HE WASTE CO E EXISTING IFT OF WAS INCH ROCK O DCEDURE FOO ND THEN WIN	INUS (DNCRET CULVE TE CON PLACED R THE LL USE	INCH ROVER INTO PERT TO 18: CRETE BE ON TOP FAMILIES ABOUT THE MINUTER OF WELLES OF WE	CK IN IECES 5 FEET 12 TO BEFORE DVE TH US 6 : IASTE O	THE BOX LESS THA T WEST OF D 18 INCH E COMPACT HE INITIA INCH ROCK CONCRETE	CULVERT A AN 12 INCH THE CULV HES IN DEF TING. RON AL ONE UNT C UNTIL CO WERE OBSE REMOVED.	AREA. RON MES AND PLA MERT. WE R PTH WITH A MINDICATED TIL THE WAS DMPLETED.	E- TE
								. igia milgi	
:Cl	F			A	proved	1 by:	DNALD M. M	IC OMBER, P	.E.

./THOMPSON, INC. SULTING GEOTECHNICAL MATERIALS ENGINEERS



					,	Job No	11381	· · · · · · · · · · · · · · · · · · ·		·
					1	Date	5-28-85			
					,	Subject: <u>Fi</u>	II Control at			
:	PEPSI COLA BOTTLI	ING CO. OF	DENVER	2		PEF	SI COLA W	AREHOUSE		
	3801 BRIGHTON BOL	I EVADO				380	1 BRIGHTO	N BLVD.		
	SOUT DRIGHTON DOC	X-EVARD		·····		ROC	K FILL PL	ACEMENT		
	DENVER, COLORADO				!	Daily Repor	rt Na	9		
	ATTN: MR. DON PAI	TON								
1	LOCATION	DEPTH	TEST TYPE	SPEC. MAX. DENSITY P.C.F.	O. M. C. %	DRY DENSITY P.C.F.	MOISTURE CONTENT %	COMPACTION	SOIL	TYP
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iber ;kne	compaction equipmen of passes:inche of adding moisture:_	· S.		······································	·					•
e of	earth moving equipme	ent and numb	er of u	nits: <u>(1</u>)_FRO	NT LOADER	₹			
;res	s Report:									
ERVI H CI NCH	UESTED BY RON CAR E THE PLACEMENT O RUSHED ROCK. THE CRUSHED ROCK WAS ED TO BE 18 TO 24	OF A MINUS E CONCRETE S PLACED FR	12 INC	CH CONCRE	TE DEE	BRIS WITH ROM STAT:	H A SURFAC	E FILLER O	F MIN THE M	inus
										•
							DELMAR FI	SCHER		
				-				Field Eng	ineer	
				A	pproved	d by:				

THOMPSON, INC. SULTING GEOTECHNICAL MATERIALS ENGINEERS



					Job No1	1381						
•				;	Date5	-29-85	·····					
					Subject:_Fi	II Control at		·				
PEPSI COLA BOTTLIN	KG CO. OF D	ENVER			PEPSI	COLA PLAN	т	· · · · · · · · · · · · · · · · · · ·				
3801 BRIGHTON BOUL	EVARD :				3801_E	RIGHTON B	LVD.					
0001 01110111011 0001				ROCKFILL PLACEMENT								
DENVER, COLORADO 8 ATTN: MR. DON PATT				_ Daily Report Na10								
LOCATION	DEPTH	TEST	SPEC. MAX.	O. M. C.	DRY DENSITY		COMPACTION	SOIL TYPE				
	 		P.C.F.		PCF	%						
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er of passes: VARI Ness of lift inche d of adding moisture:	ED \$.											
er of passes: VARI Ness of lift inche d of adding moisture:	ED \$.											
er of passes: Ness of lift inche d of adding moisture: of earth moving equipme	ED \$.											
er of passes: Ness of lift N	ED s ent and numb //ISITS THE //ASTE CONCR	contra	nits: CTOR CON' LL. THE	(1) FF	RONT LOAD D PLACEME RACTOR WA	DER ENT OF MIN AS IN THE	PROCESS OF	COMPACTING				
er of passes: Ness of lift ness of lift not adding moisture: of earth moving equipments ess Report: G THESE TWO SITE V E SURFACE OF THE W	ED s ent and numb //ISITS THE //ASTE CONCR	contra	nits: CTOR CON' LL. THE	(1) FF	RONT LOAD D PLACEME RACTOR WA	DER ENT OF MIN AS IN THE	PROCESS OF	COMPACTING				
er of passes: Ness of lift N	ED s ent and numb //ISITS THE //ASTE CONCR	contra	nits: CTOR CON' LL. THE	(1) FF	RONT LOAD D PLACEME RACTOR WA	DER ENT OF MIN AS IN THE	PROCESS OF	COMPACTING				
r of passes: vARI ess of lift inches d of adding moisture: f earth moving equipme ss Report: G THESE TWO SITE V SURFACE OF THE W	ED s ent and numb //ISITS THE //ASTE CONCR	contra	nits: CTOR CON' LL. THE	(1) FF	RONT LOAD D PLACEME RACTOR WA	DER ENT OF MIN AS IN THE	PROCESS OF	COMPACTING				
er of passes: Ness of lift N	ED s ent and numb //ISITS THE //ASTE CONCR	contra	nits: CTOR CON' LL. THE	(1) FF	RONT LOAD D PLACEME RACTOR WA	DER ENT OF MIN AS IN THE	PROCESS OF	COMPACTING				
er of passes: Ness of lift of adding moisture: of earth moving equipments ess Report: IG THESE TWO SITE V THE SURFACE OF THE W	ED s ent and numb //ISITS THE //ASTE CONCR	contra	nits: CTOR CON' LL. THE	(1) FF	RONT LOAD D PLACEME RACTOR WA	DER ENT OF MIN AS IN THE	PROCESS OF	COMPACTING				
er of passes: Ness of lift of adding moisture: of earth moving equipments ess Report: IG THESE TWO SITE V IE SURFACE OF THE W	ED s ent and numb //ISITS THE //ASTE CONCR	contra	nits: CTOR CON' LL. THE	(1) FF	RONT LOAD D PLACEME RACTOR WA	DER ENT OF MIN AS IN THE PUMPING A	PROCESS OF T STATION	COMPACTING 8+80.				
of compaction equipmenter of passes: Ness of lift of adding moisture: of earth moving equipments ess Report: NG THESE TWO SITE VIESURFACE OF THE WIESURFACE OF THE WIESURFACE	ED s ent and numb //ISITS THE //ASTE CONCR	contra	nits: CTOR CON' LL. THE	(1) FF	RONT LOAD D PLACEME RACTOR WA	DER ENT OF MIN AS IN THE PUMPING A	PROCESS OF T STATION	COMPACTING 8+80.				
er of passes: Ness of lift of adding moisture: of earth moving equipments ess Report: IG THESE TWO SITE V IE SURFACE OF THE W	ED s ent and numb //ISITS THE //ASTE CONCR	contra	nits:	(1) FF	RONT LOAD D PLACEME RACTOR WA	DER ENT OF MIN AS IN THE PUMPING A	PROCESS OF T STATION	COMPACTING 8+80.				

/THOMPSON, INC.
SULTING GEOTECHNICAL
MATERIALS ENGINEERS



					Job No	11381		
					Date	5-30-85		
					Subject:_Fi	II Control at		
PEPSI COLA BOTT	LING CO. DF	DENVE	R		PEPS	SI COLA PL	ANT	
· · · · · · · · · · · · · · · · · · ·					3801	BRIGHTON	BLVD.	
3801 BRIGHTON E	BOULEVARD				ROCK	FILL PLA	CEMENT	
DENVER COLORAD	0 80216				Daily Repo	rt Na	11	
ATTN: MR. DON F	PATTON		•		•			
LOCATION	DEPTH	TEST	SPEC. MAX. DENSITY P.C.F.	0. M. C. %	DRY DENSITY P.C.F.	MOISTURE CONTENT %	COMPACTION	SOIL TY
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· · · · · · · · · · · · · · · · · · ·								
		†						
		 						
		 	<u> </u>	 				
e of compaction equipments ber of passes: VAR kness of lift 18-24 inch and of adding moisture: of earth moving equipments of the compact of t	es.						LER	
ress Report: NG THIS SITE VISIT FROM STATION 11+4 RACTOR REMOVED THE SHED ROCK. A SLIGH	O TO 7+80. SE MATERIAL	SURFA S IN T	CE PUMPIN	NG WAS	DETECTE BACKFILL	D AT STAT ED WITH M	ION 8+80.	THE
						DEI MAR	FISCHER	
					······································		Field Engi	neer
			Αţ	proved	by:			
								•

THOMPSON, INC. JULTING GEOTECHNICAL MATERIALS ENGINEERS



					Job No1	1381	····	·
					Date	-31-85		
					Subject: <u>Fi</u>	II Control at		
PEPSI COLA BO	ITLING CO.	OF DEN	IVER.		PEPS:	-COLA, BO	X CULVERT	
3801 BRIGHTON	BOULEVARD				3801	BLVD.	·	
					ROCK	FILL PLAC	EMENT	
DENVER, COLOR					Daily Repo	rt Na		
ATTN: MR. DON	PATTUN				<u></u>			
LOCATION	DEPTH	TEST TYPE	SPEC. MAX. DENSITY P.C.F.	0. M. C. %	DRY DENSITY P.C.F.	MOISTURE CONTENT %	COMPACTION	SOIL TYP
				<u> </u>				
		 						
		 		·				
		ļ			<u> </u>			
		 						
		<u> </u>	<u> </u>			<u> </u>		<u> </u>
of compaction equipmen	t and number	of units	: <u>(1)</u> V	IBRATO	DRY_SHEEF	PSFOOT_COM	PACTOR	
er of passes:								
iness of liftinche								
od of adding moisture:			., (1)					
of earth moving equipme	ent and numb	er of u	nits: <u>(1)</u>	FRUNI	END LUA	ADER		
ess Report: SITE WAS VISITED TO THE CONTRACTOR WEST OVER THE F AND ALSO FOR A BET	VAS PREPARI ROCK FILL TO TTER WORKIN	NG TO O TRY G SURF	POUR A 4 AND PREVE ACE FOR 1	INCH ENT TH INSTAL	MAT OF (E ROCK F LATION (CONCRETE F FILL FROM OF THE BOX	ROM THE EX BEING WASH CULVERT.	ISTING ED A
. AMOUNT OF ROCK FI FING CULVERT TO BRI ED AT STATION 8+10 . APPROXIMATELY 5 DECIDED TO TRY AND EMOVE AND REPLACE TO	ING THE ARE TO STATION FEET OF RO STABILIZE	A TO T 8+20 CK AND THIS A	HE DESIGN ALONG THE WASTE CO REA WITH	N ELEV E SOUT ONCRET	/ATION. THERN HAL TE HAS BE	A DEFORMI F (6 FEET EEN PLACED	NG AREA WA) OF THE F) IN THIS A	S OB- ILL REA.
						PAUL HUN	ISADER	
						····	Field Engi	neer
			Αţ	proved	by:			
1					RONA	ALD M. MC	OMBER, P.E	•

./THOMPSON, INC. SULTING GEOTECHNICAL MATERIALS ENGINEERS



					Job No	11381						
					Date	6-3-85						
					Subject:_Fi	II Control at						
PEPSI COLA E	OTTLING CO. D	E_DENV	ER		-	SI COLA P						
					380	1 BRIGHTO	N BLVD.	···				
3801_BRIGHTE	N BOULEVARD			ROCK FILL PLACEMENT								
DENVER, COLC		····			Daily Repo	rt Na <u> </u>	3					
ATTN: MR. DO	N PATTON											
LOCATION	DEPTH	TEST	SPEC. MAX. DENSITY P.C.F.	O. M. C. %	DRY DENSITY P.C.F.	MOISTURE CONTENT %	COMPACTION	SOIL TYP				
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100		 		 	 	·		<u> </u>				
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<u> </u>		<u> </u>	<u>!</u>	<u> </u>	1	<u> </u>	<u> </u>					
of compaction equip	ment and number	of units	:			· · · · · · · · · · · · · · · · · · ·						
ber of passes:												
kness of liftir	nches.											
iod of adding moistu												
of earth moving equ	ipment and numb	er of u	nits:	· · · · · ·								
ress Report:												
R TO THIS SITE V CULVERT FROM APP . THE CONTRACTO ITY TESTS ON IMP	RUXIMATELY STA R REQUESTED A	SITE	7+50 TO 1	11+40.	, NO WOF	K WAS IN	PROGRESS A	1 1H12				
					•							
			_			DELMAR FI	SCHER Field Eng	ineer				
							rield Eff	11.001				
			A	pproved	f by:							
V			- 1		RO	NALD M. M	C OMBER. P	.E.				

/THOMPSON, INC. SULTING GEOTECHNICAL MATERIALS ENGINEERS



NDY

				,	Job No	1381			
					Date6	-5-85	<u></u>		
					Subject: Fi	II Control at			
PEPSI COLA BOTTLII	NG CO. OF	DENVER	2	•	_		CULVERT		
7004 PRICEFON BOLL		•				BRIGHTON			
3801 BRIGHTON BOU	LEVARU				BULK	DENSITY			
DENVER, COLORADO					Daily Repo	rt No	14		
ATTN: MR. DON PAT	TON								
IN THE TRUCK BOX	DEPTH	TEST	WET	0 44 6	DRY	MOISTURE	COMPACTION		
LOCATION ***	*	TYPE	DENSITY P.C.F.	0. M. C. %	DENSITY P.C.F.	CONTENT.	COMPACTION		
12" DT FRONT	0.5	NUC	91		78	15.6		8 <u>₽</u> 6Y	V. SA BROWN
6" DT FRONT	0.5	NUC	93		-80	15.6		••	11
12" DT REAR	1.0	NUC	100		89	12.1		••	11
6" DT REAR	1.0	NUC	67		60	12.1		• •	
12" DT CENTER	0.5	NUC	95		84	13.0		.11	11
6" DT CENTER	0.5	NUC	63		56	13.0		••	11
		1100							
					· ·				
							4		
				 					
	<u> </u>	<u> </u>	<u> </u>	<u> </u>	L		I	l	
of compaction equipment	and number	of units	:- <u></u> -						
ber of passes:									
kness of liftinches									
nod of adding moisture:_									
of earth moving equipme	nt and numb	er of u	nits:						
ress Report:									
REQUESTED BY RON CAR FORMED ON THE IMPORT BULK DENSITY OF THE	FILL MATE	ERAIL						RMINE	
ELOW SURFACE OF FILL DADED TRUCK (FEET)	_ MATERIAL	IN TH	E	·	DEL	MAR FISCH	ER Field Engi	neer	
ERCENT MOISTURE DETE		OVEN	DRIED A	pproved	by:			<u></u> -	
T= DIRECT TRANSMISS	ION				F	ONALD M.	MC OMBER, I	P.E.	

./THOMPSON, INC. SULTING GEOTECHNICAL MATERIALS ENGINEERS



						Job No	1381			
										_
						Subject: <u>Fi</u>	II Control at			
:_	PEPSI COLA BOTTLING	CO. OF D	ENVER			PEPSI	COLA. BO	X CULVERT		
		71100				3801	BRIGHTON	BI VD		
-	3801 BRIGHTON BOULE	-VARD	<u></u>			BULK	DENSITY			
_	DENVER. COLORADO 80	0216				Daily Repo	rt No1	5		
_	ATTN: MR. DON PATTO	NC				•				
Γ	LOCATION ** IN THE TRUCK BOX	DEPTH ·	TEST TYPE	WET DENSITY P.C.F.	0. M. C. %	DRY DENSITY RGF	MOISTURE CONTENT %	COMPACTION	SOIL	TYPE
=	12'' DT FRONT	0.5	NUC	95		82	16.4		SLAN	_Y ∨.
٦	12' DT REAR	1.0	NUC	98		82	19.6		• •	••
٦										
									,	
٦						·				
1										
1										
1							 			
=	of compaction equipment	and number	of unito							
	er of passes:		Of Mills	·						
	ness of liftinches				~~~					
	od of adding moisture:									
	of earth moving equipmen			nits:						
	ess Report:									
Ī	•••									
	REQUESTED BY RON CAR									
	FORMED ON THE IMPORT BULK DENSITY OF THE			LOADED TI	RUCK.	THIS W	AS DONE ID	DETERMINE		
_		- 1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•			•				
							DELMAR F	ISCHER		
38	ELOW THE SURFACE OF	FILL MATE	RIAL I	N THE LO	ADED 7	TRUCK		Field Engi	neer	
						by:				
	=DIRECT TRANSMISSION	N		^)	PP1 0460	•	ONALD M. N	C OMBER. P	.E.	

L/THOMPSON, INC. NSULTING GEOTECHNICAL D MATERIALS ENGINEERS



						Job No	11381	·		
			-			Date	6-12-	85		
							II Control at			
·n.	PEPSI COLA BOTTLIN	G COMPANY	OF DE	NVER		•	COLA, BOX			
۷٠_		·····		· · · · · · · · · · · · · · · · · · ·			BRIGHTON E		·	
-	3801 BRIGHTON BLVD	·····				FILL	DBSERVATION	ON!		,
	DENVER, COLORADO									
-	ATTN: MR. DON PAT					Daily Repor	T NO			
=				Tanan		Tasy	40.07.105	1		====
3T).	LOCATION	DEPTH	TEST TYPE		O. M. C. %	DRY DENSITY P.C.F.	MOISTURE CONTENT %	COMPACTION	SOIL	TYF
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-				<u> </u>		}				
-				-				 	 	
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4										
									<u> </u>	
۱۵	of compaction equipment	and number	of units							
	er of passes:									
	ness of liftinches									
	od of adding moisture:									
	of earth moving equipmer			nits: —						
			O1 O1 U1							
RI XEI 3 II FE TH 3H 3 II	ess Report: EQUESTED BY RON CARP RVE THE CONCRETE DEI PLACED ON THE WEST P EXISTING CULVERT. EET. THE INDICATED A VIBRATORY SHEEPSP IN PREPARATION OF (LIMITS OF THE PROPOS STREAM OVER THIS SEC	BRIS AND R PORTION OF THIS FILL DEPTH OF FOOR COMPA CAPPING WI SED BOX CU	OCK F: THE S EXTEND FILL V CTOR. TH CON	ILL. RON SPILL APRI DED BEYON VAS 1.5 TO THIS FIN	INDI ON AD D THE O 3.5 LL WA: THIS I	CATED PRI JACENT TO APRON DO FEET. S COVERED FILL SECT	IOR TO OUF THE WEST DWN STREAM THE FILL V D WITH 6 E TION IS LO	R VISIT, FI T WING WALL M APPROXIMA WAS COMPACT BY 12 INCH DCATED OUTS	LL OF TELY ED WIRE SIDE	
					DELM	AR FISCHE	R			
								Field Eng	ineer	
CF	-			Aį	pproved	d by:	ALD M. MC	OMBER, P.E		فسننجيد
							,,,			

./THOMPSON, INC. SULTING GEOTECHNICAL MATERIALS ENGINEERS



		*				Job No	11381						
						Date		35					
					Subject: Fill Control at								
:_	PEPSI COLA BOTTLIN	G COMPANY	OF DE	NVER	PEPSI PLANT - BOX CULVERT								
	3801 BRIGHTON BLVD				3801 BRIGHTON BLVD								
-	3001 BRIGHTON BLVD					STOCK	PILE DENS	ITY					
_	DENVER, COLORADO /					Daily Repo	rt Na1	7					
_	ATTN: MR. DON PAT	TON				•							
ŗ	LOCATION N.E. STOCKPILE:	DEPTH *	TEST TYPE	SPEC. MAX. DENSITY P.C.F.	O. M. C. %	DRY DENSITY P.C.F.	MOISTURE CONTENT	COMPACTION %	SOIL	TYPI			
Ī	N.W. CORNER	6.0	NUC	118	11.5	113	11.7	96	CURVE	#4			
٦	S.W. CORNER	8.0	NUC	118	11.5	104	14.3	88	11	11			
	S. SIDE, CENTER	12.0	NUC	118	11.5	112	11.0	95	• •	, ,			
	CENTER	13.0	NUC	118	11.5	116	10.6	98	• •	11			
	N. SIDE CENTER	12.0	NUC	118	11.5	108	13.9	92	11	11			
	N.E. CORNER	10.0	NUC	118	11.5	112	10.2	95	• •	• •			
	S.E. CORNER	10.0	NUC	118	11.5	113	11.4	96	• •	• •			
									l				
_													
	of compaction equipment er of passes:		ot units	i :									
	ness of liftinches				·								
	od of adding moisture:												
	of earth moving equipmen		er of u	nits:									
	ess Report:												
•	oss report.												
R	EQUESTED BY RON CAR	PENTER WIT	H REI	BURTON	CONST	RUCTION,	FIELD DE	NSITY TESTS	5				
	PERFORMED ON MATER MOBILE PRE-MIX.	IAL IN THE	NORTI	HEAST STO	CKPIL	E. THIS	MATERIAL	WAS IMPORT	ΓED				
111	PODILE PRE-PILA.												
	•					•							
					DELM	AR FISCH	ER						
þ	PROXIMATE HEIGHT OF	STOCKPILE	AT TA	— ⊣E				Field Engi	ineer				
	ST LOCATION (FEET)		,										
				Aş	proved	by:	NIAL D. NA. NA.	OMBER, P.					
						KU	NATO M. M	. UNDER, P	· • •				

CF

/THOMPSON, INC. SULTING GEOTECHNICAL MATERIALS ENGINEERS



			•	•	Job Nb				
				1	Date	6-21-	85		
				,	Subject: <u>Fi</u>	II Control at			
PEPSI COLA BOTTLIN	G COMPANY	OF DE	NVER		PEPSI	PLANT - E	30X CULVERT	• 	
3801 BRIGHTON BLVD					3801	BRIGHTON (BLVD		
3001 BICTOTTON BEVE	· .				STOCK	PILE DENS	ITY		
DENVER, COLORADO				.	Daily Repo	rt No. 18		·····	
ATTN: MR. DON PAT	TON							,	
•	DEPTH	TEST	SPEC. MAX.	O. M. C.	DRY	MOISTURE	COMPACTION	5011	TVO
LOCATION STOCKPILE:	*	TYPE	DENSITY P.C.F.	%	PCF	CONTENT	%	SOIL	1175
N. SIDE, CENTER	18.0	NUC	118	11.5	110	17.2	93	CURVE	#4
S. SIDE, CENTER	20.0	NUC	118	11.5	104	18.3	88	• •	11
S.E. CORNER	17.0	NUC	118	11.5	115	15.1	97	• •	• •
N.E. CORNER	14.0	NUC	118	11.5	110	14.0	93	• •	• •
N.W. CORNER	12.0	NUC	118	11.5	115 -	13.3	97	• •	11
S.W. CORNER	12.0	NUC	118	11.5	110	16.8	93 ;	• •	.1 1
of compaction equipment ber of passes:inches	 i.	of units	j:						
nod of adding moisture:		 -			· · · · · · · · · · · · · · · · · · ·		<u> </u>		
of earth moving equipme	nt and numb	er of u	nits:						
ress Report:									
REQUESTED THE ABOVE THEAST CORNER OF THE		PERF	ORMED ON	MATER:	IAL IN T	HE STOCKP:	ILE LOCATED) IN T	HE
•									
				DELM	AR FISCH	ER			
PROXIMATE HEIGHT OF T TEST LOCATION (FEE		i					Field Engi	neer	-
			A	pproved	by:	ALD M. MC	OMBER, P.E		

CF

./THOMPSON, INC. ISULTING GEOTECHNICAL MATERIALS ENGINEERS



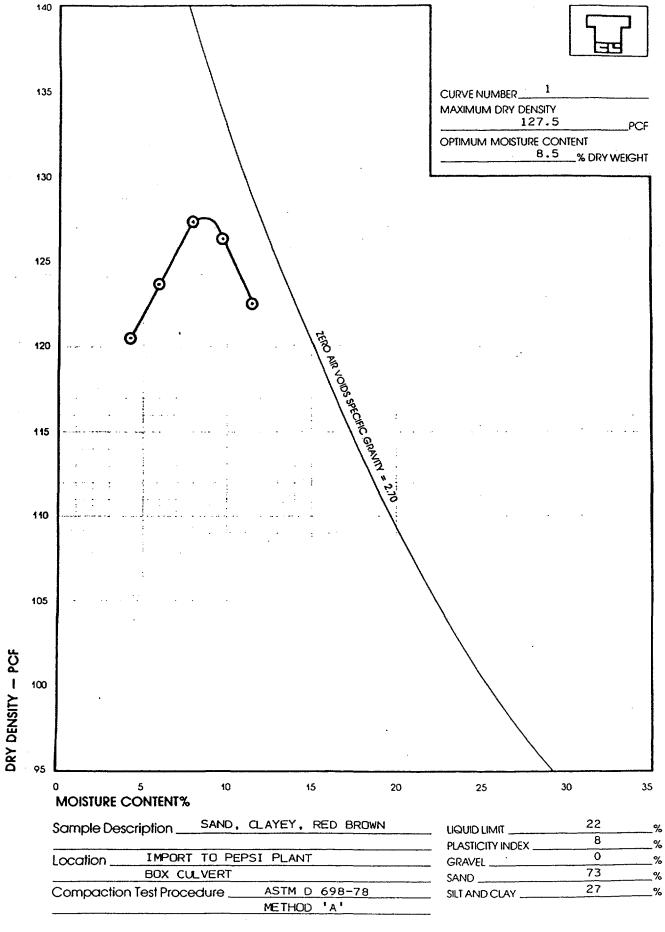
	•				_	inh No	11381			
						Date		35		
							II Control at			
٠.	PEPSI COLA BOTTLIN	IG COMPANY	OF DE	NVER				BOX CULVER		
	3801 BRIGHTON BLVD)				3801	BRIGHTON E	BLVD	 .	
•				·		STOCK	PILE DENS	ITY		
	DENVER, COLORADO ATTN: MR. DON PAT	80216				Daily Repo	rt Na			
=	ATTIVE PIKE DON'T AT	1014								
T	FROM INDICATED LOCATION LOCATION ON STOCKE	DEPTH *	TEST TYPE	SPEC. MAX. DENSITY P.C.F.	0. M. C. %	DRY DENSITY P.C.F.	MOISTURE CONTENT	COMPACTION	SOIL	TYPI
=	N.E. CORNER	14.0	NUC	118	11.5		12.3	% 96	CURVE	: #4
_	NORTH SIDE	20.0	NUC	118	11.5		14.2	98		. 1 1
-	N.W. CORNER		NUC	 					 	
-	S.W. CORNER	16.0	NUC	118	11.5		15.1	.95 87	••	7.
-	SOUTH SIDE	20.0	NUC	118	11.5		13.6	94		,,
-	S.E. CORNER	14.0	NUC	118	11.5		13.7	92		• • •
_	J.E. COMEN	17.0	1,400	110	11.3	109	13.1	92	 	
-			 							
-									 	
-										
=				<u></u>	<u> </u>		<u> </u>		<u> </u>	
e	of compaction equipment	and number	of units	:					<u></u>	
ıb	per of passes:									
	cness of liftinches									
	od of adding moisture:									
;	of earth moving equipmen	nt and numb	er of u	nits:						
ļľ	ess Report:									
	EQUESTED, DUR FIELD									
	RACTOR CONTINUED TO THE CONTRACTOR W						HE NURTHEA	IST CURNER	OF IM	E.
	v.									
					•					
					PA	AT CLEVE	NGER	Field Eng	ineer	
Р	PROXIMATE HEIGHT OF	STOCKETIE	- ΔΤ					, idia bily	····	
	EST LOCATION (FEET)	O LOCKE TEE	. ^1	Aş	proved	by:				
				•	-	•	VALD M. MC	OMBER, P.	E.	

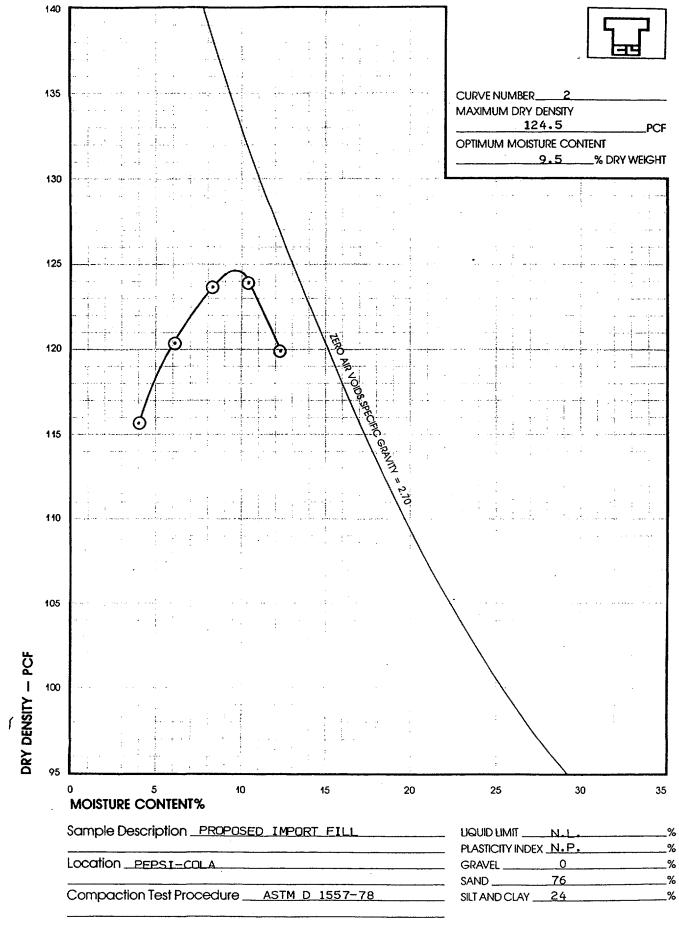
/THOMPSON, INC. SULTING GEOTECHNICAL MATERIALS ENGINEERS

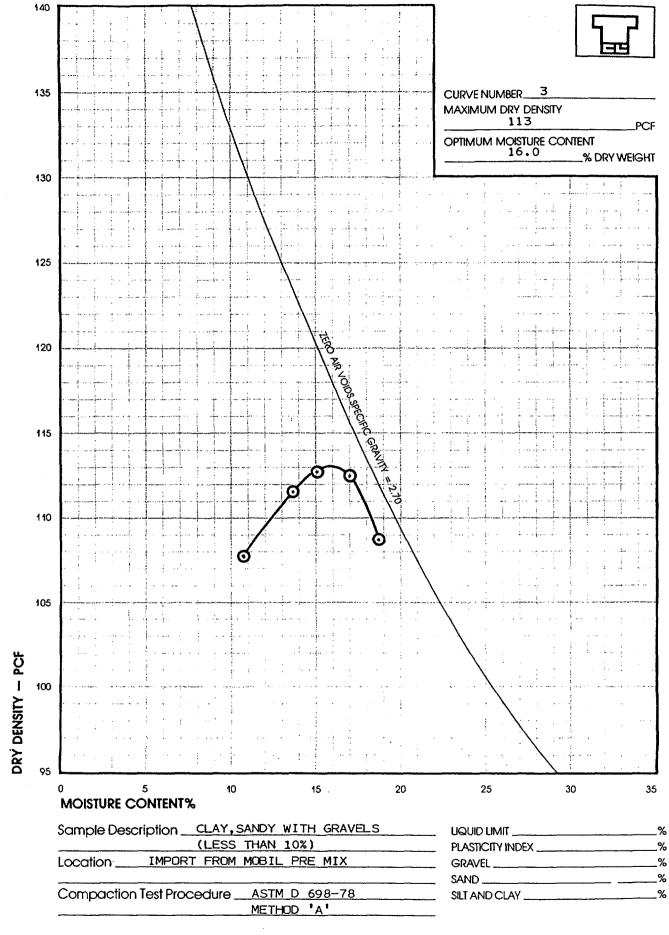


			ب		Job No	11381						
						7-1-8	5					
				Subject: Fill Control at								
PEPSI COLA BOTTL	ING COMPAN	Y OF DI	ENVER		-	COLA PLAN						
ZOAL DRIGITON DI	WD.			3801 BRIGHTON BLVD								
3801 BRIGHTON BL	VD	· · · · · · · · · · · · · · · · · · ·			SEPTI	C TANK REM	MOVAL					
DENVER, COLORADO	80216				Daily Repor	rt Na2()					
ATTN: MR. DON P	ATTON											
LOCATION	DEPTH	TEST TYPE	SPEC. MAX. DENSITY P.C.F.	DENSITY O. W. O DENSITY CONTENT								
												
		-		 								
	 							<u> </u>				
	 			 								
		 				 						
	+	 	 		 							
		1	1	<u> </u>	1	<u> </u>	<u> </u>					
; of compaction equipmen	t and number	of units	s:	•								
ber of passes:		 										
kness of liftinche	s.											
nod of adding moisture:_							····					
of earth moving equipme	ent and numb	per of u	nits: <u>(1)</u>	FRONT	-END LOA	DER						
ress Report:												
THE REQUEST OF RON OF ERVE REMOVAL OF TWO HIN AN OLD LEACHING BRIGHTON BLVD. AND OKS AND ALL ORGANIC OF BROWN SLIGHTLY SUSTED OF MOIST LIGHTLY BE REWORKED AND FURTHER LED AND WHEEL ROLLED TS SHOULD BE PERFORM	SEPTIC TAI FIELD. TH 100 FEET NO MATERIAL WA ANDY CLAY.E HT BROWN, GR RECOMPACTED WITH A FE	NKS ANI HE ARE, DRTHEA: AS REMO BELOW: RAVELLY O AT A RONT-EI	D TO EVAL A BEING E ST OF PEP DVED. TH THE CLAY, / SAND. LATER DA ND LOADER	CONTRACTOR CONTRACTOR	THE MOIS TED IS LO LA'S LOAD 3 TO 4 DE AL SOIL DE ARPENTER UNTIL THE N CARPEN	TURE CONTE OCATED 100 DING DOCKS FEET CONSI WAS ENCOUN INFORMED AT TIME TH TER WAS IN	ENT OF THE O FEET NORT S. BOTH SE ISTED OF A NTERED WHIC US THIS AF HE TEST PIN	SOIL HWEST PTIC STIFF H REA WAS	:			
			A	pproved	d by:	ALD M. MC	OMBER, P.E	•				

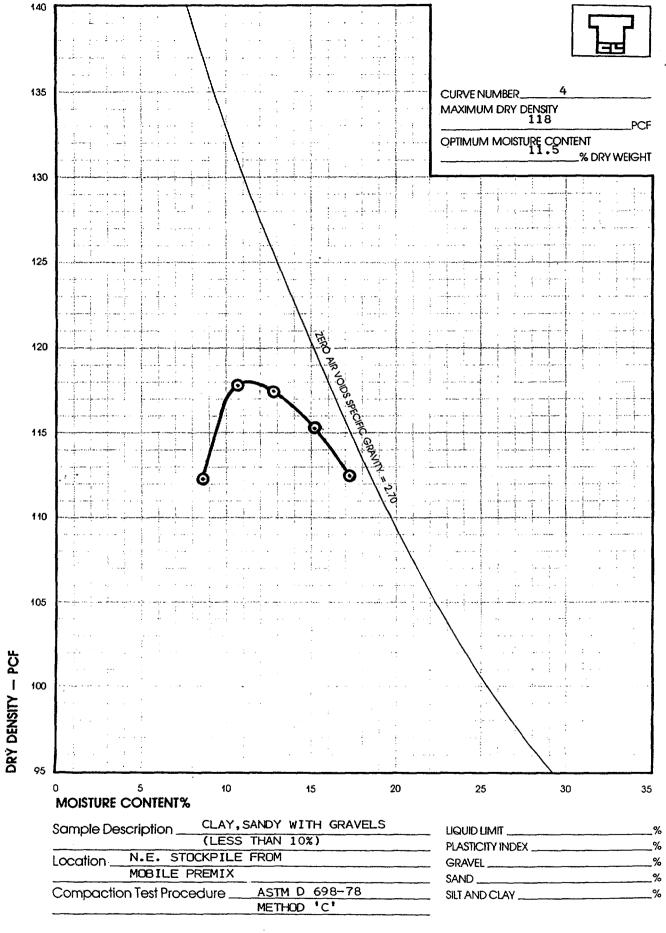
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Compaction Test Results

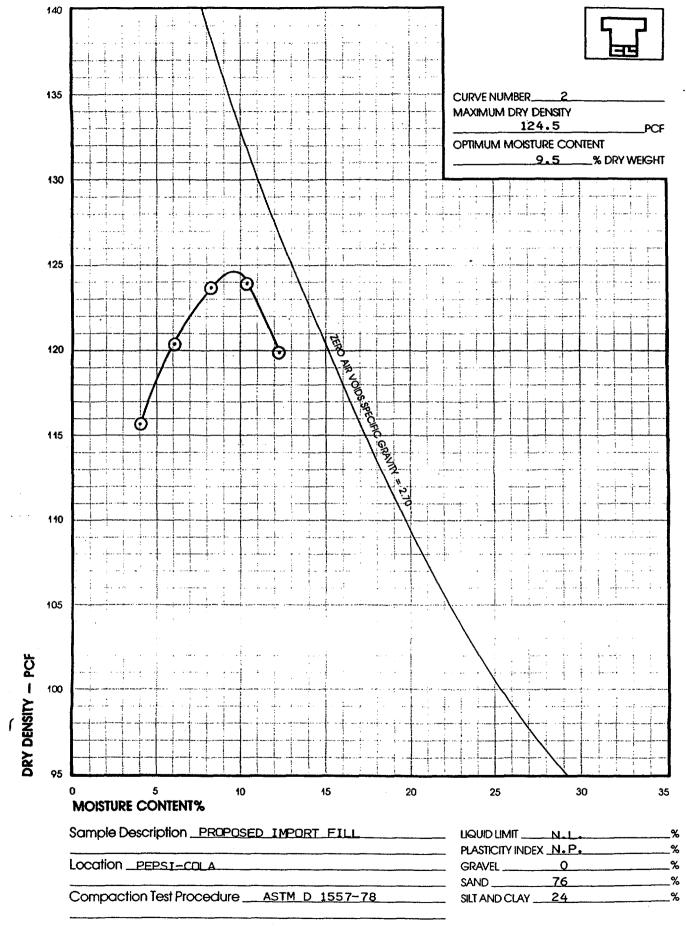


Compaction Test Results

L/THOMPSON, INC.
VSULTING GEOTECHNICAL
MATERIALS ENGINEERS



					Job No	11381			
					Date	7 2−8	5		
						II Control at			
0: PEPSI COLA BOTTL	ING COMPANY	OF DI	ENVER		•	PLANT			
					3801	BRIGHTON E	BLVD		
3801 BRIGHTON BL	<u>/D</u>	<u>-</u>			SEPTI	C TANK REI	MOVAL & BAC	KFILL	
DENVER. COLORADO	80216						!		
ATTN: MR. DON PA	ATTON								
FROM N.W. CORNER	DEPTH	TEST	SPEC. MAX.	0 11 0	DRY	MOISTURE	COMPACTION		
) LOCATION SERVICE WAREHOUSE	<u> </u>	TYPE	DENSITY P.C.F.	0. M. C.	DENSITY	CONTENT	COMPACTION	SOIL	TYP
	<u> </u>	<u> </u>	F. C. F.		PCF	!	<u> </u>		
20'E, 20'S	1.5	SAND	124.5	9.5	120	9.0	96	CURV	E #1
20'E, 70'S	3.0	SAND	124.5	9.5	119	8.5	95	11	11
20'E, 100'S	4.5	SAND	124.5	9.5	121	6.7	97	11	1 1
									
	<u> </u>		<u> </u>		<u> </u>	L	1	<u></u>	
e of compaction equipment	tand number	of units	(1) P	NEUMA	TIC ROLL	<u> </u>			
nber of passes: VARI	:ED								
ckness of lift_8_inches									
thod of adding moisture:_				···					
e of earth moving equipme	int and numbe	er of u	nits: <u>(1</u>) SCR	APER				
gress Report:									
•									
REQUESTED, OUR FIELD									
E CONTRACTOR HAD COME VNING FROM NORTH TO S									
DVE TEST RESULTS INDI									
THE TEST RESULTS.				•					
				•					
				PAT (CLEVENGER	?	Field Engi	neer	
)EPTH BELOW FINISH GR	ADE (FEET)						rieiu ciigi	1001	
III DELON (INION ON	, (, LL. /		Δι	proved	hv:				
			71	.p. 0160	RONAL	D M. MC C	MBER, P.E.		





CTL/THOMPSON, INC. CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

October 22, 1985

Pepsi Cola Bottling Co. of Denver 3801 Brighton Boulevard Denver, Colorado 80216

Attention: Mr. Don Patton

Subject:

Statement of Substantial Conformance

Fill Operations

Pepsi Warehouse and Sports Facility Additions

and Box Culvert

Job Nos. (11,381) and 11,870

Gentlemen:

Our engineering technician was on site during the preparation of subgrade for the box culvert, during the excavation of existing fill in the Warehouse and Sports Facility additions, and during replacement of the fill by compacted soils. The scope of our work included parttime and full-time testing and inspection as requested by Reid Burton. The results of our tests have been reported under our Job No. 11,381 (reports 1 through 21) and Job No. 11,870 (reports 1 through 24). On the basis of our inspections and tests, we believe the fill placement was completed in substantial conformance with the recommendations contained within our reports for this project (Job No. 11,261 dated March 28, 1985 and Job No. 11,277 dated March 14, 1985).

Our firm will continue to test compaction of backfill for the culvert and Fructose Building foundations, as well as inspect footings and test concrete, on a part-time basis as you requested.

Please call if there are any questions regarding this statements.

Very truly yours,

CTL/THOMPSON, INC.

Ronald M. McOmber, P.E.

RMM: dw

(3 copies sent)

1cc: Reid Burton

P.O. Box 905

Fort Collins, Colorado 80522



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE., DENVER, CO 80204 (303) 825-0777

CLIENT: PEPSI-COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

DATE:	10/09/85 JOB NO. 12285
REPORT N	10
SUBJECT	PEPSI-COLA MANUFACTURING FACILITY
	3801 BRIGHTON BOULEVARD
	BOX CULVERT BACKFILL

				LABOI	RATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF **	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
1	STA. 10+8 LEFT SIDE OF BOX CULVERT	6.0	NUC.	119	12.5	111	9.0	93	_SAND SILTY
2	STA. 8+75 LEFT SIDE OF BOX CULVERT	5.0	NUC	119	12.5	110	8.2	92	
3	RETEST OF #1		NUC	119	12.5	115	11.5	97	11
4	RETEST_OF_#2		NUC .	119	12.5	116	10.2	97	• •
*	BELOW TOP OF CULVERT ESTIMATED BY A ONE POINT-	PROCTO	R						

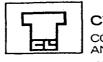
SPECIFICATIONS: 95 % OF MAXIMUM ASTM_D-1557 MOISTURE WITHIN 2 % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: 1)CAT_824_COMPACTOR	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS
MOISTURE ADDED BY FIRE HOSE	SPECIFICATIONS.
THICKNESS OF LIFT 8-12 INCHES	
TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:	
-1-)SCRAPER	
TESTS, AS PREVIOUSLY SCHEDULED. DURING THE PERFORMED ON FILL PLACEMENT ALONG THE NORTH REWORKED THE AREAS OF TESTS #1 AND 2 PRIOR	TH SIDE OF THE BOX CULVERT. THE CONTRACTOR TO RETESTS.
(3) IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED AND SHOULD BE REWORKED SCOPE OF OBSERVATION: [1] FULL TIME; [X] PERIODIC, ON CALL BASIS; [X]] CONTROLL	ED BY OUR OBSERVATIONS AND TEST NO.(S)
	CTI /THOMPSON INC

APPROVED BY

DELMAR FISCHER

FIELD REPRESENTATIVE DF : RS

RONALD M. MC OMBER P.E.



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE., DENVER, CO BO204 (303) 825-0777

CLIENT:

PEPSI-COLA 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

DATE:	10/10/85	JOB. NO	12285	
DEDOOT NO	2		SUEET 1 OF	1
SUBJECT	PEPSI-COLA	MANUFA	CTURING FA	CILITY
	3801 BRIGH	TON BOU	LEVARD	
	BOX CULVER	T BACKE	ILL	

,				LABOR	RATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	omc %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
5	STA. 8+6 LEFT SIDE OF								SAND
-	BOX CULVERT	3.5	NUC	119	12.5	114	10.6	96	SILTY
6	STA 9+50 LEFT SIDE OF BOX								
	CULVERT	3.5	NUC	119	12.5	114	119	96	• •
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*	BELOW TOP OF CULVERT	ł					İ		And the state of t
	MOISTURE WITHIN2		P11MUM	UPON MOIST OBSER	THE CONTR URE TO ACH EVER IS NOT	ACTOR TO A HEVE SPECIFI PRESENT, AN	PPLY THE NE ED COMPA D'AT LOCATI	CESSARY C CTION DUR ONS OTHER	OVE, WE HAVE RELIED COMPACTIVE EFFORT AND SIMES WHEN OUR THAN THOSE TESTED.
DOI ITSION	ADDED BY FIRE HOSE				ATA ARE NO FICATIONS,	I THE SOLE B	ASIS FOR OF	NO SMOININ	I WHETHER THE FILL MEETS
	_			G. CO					
YPE OF EA	ARTH MOVING EQUIPMENT AND NO. OF UNITS:						-		
1):	SCRAPER								
PROGRES	SREPORT DURING THIS VISIT	· •		anno e i serie i accise i acci					
PROGRES	SREPORT DURING THIS VISIT RTH SIDE OF THE BOX CULVERT	•				n and a supplied of the suppli			
ROGRESS NOF	SREPORT DURING THIS VISIT								
PROGRESS NOF	S REPORT DURING THIS VISIT RTH SIDE OF THE BOX CULVERT	s as indic.	ATED BY OU	JR OBSERVA	ATIONS AND	TEST NO.(S)			5-6
ROGRESS NOF	SREPORT DURING THIS VISIT RTH SIDE OF THE BOX CULVERT	s as indic.	ATED BY OU	JR OBSERVA	ATIONS AND	TEST NO.(S)			5-6

CTL/THOMPSON, INC.

DELMAR FISCHER

DF:RS

APPROVED BY

RONALD M. MC OMBER P.E.



CLIENT: PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

DATE: 10-11-85	JOB. NO	12285	
REPORT NO.	3	SHEET1 OF .	1
SUBJECT			

PEPSI COLA MANUFACTURING FACILITY 3801 BRIGHTON BLVD. BOX CULVERT BACKFILL

				LABOR	RATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	STA. 9+70 30 LEFT FROM C.L	•							CURVE #4
7	OF CULVERT	3.0	NUC	118	11.5	118	15.2	100	JOB #11381
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								†	
							ŀ		
								<u> </u>	
*	BELOW TOP OF CULVERT		L	l	L	L	L	<u> </u>	
	ATIONS: 98 % OF MAXIMUM AS								LT OF OUR OBSERVATION

* BELOW TOP OF CULVERT	
SPECIFICATIONS: 98 % OF MAXIMUM ASTM D 698 MOISTURE WITHIN -2 TO +3 % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (1) 824 CAT COMPACTOR	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AS MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL ME
MOISTURE ADDED BY (1) FIRE HOSE	SPECIFICATIONS.
THICKNESS OF LIFT 8 INCHES	
TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: (1) FRONT LOADER. (1) SCRAPER	
TIT TRUNK LUMBER, LIT SURFER	
PROGRESS REPORT DURING OUR MORNING SITE VISIT THE	
NOON VISIT THE CONTRACTOR WAS PLACING FILL F	
THE RAMP IS BEING INSTALLED TO PROVIDE ACCES	
THE CONTRACTOR INDICATED THIS RAMP FILL WOL	
COMPLETED EAST OF STATION 8+10.	
IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR C	DBSERVATIONS AND TEST NO.(S)
IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED AND SHOULD BE REWORKED	
SCOPE OF OBSERVATION: \Box FULL TIME; $\dddot{\chi}$ PERIODIC, ON CALL BASIS; $\dddot{\chi}$ CONTRACTOR OF CONTRACTO	CTOR'S OR CLIENT'S REPRESENTATIVE ADVISED DARREL
· cr	L/THOMPSON, INC.

APPROVED BY

RONALD M. MC OMBER, P.E.

FIELD REPRESENTATIVE

DELMAR FISCHER



CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

DATE: 10-14-85	JOB. NO	12285	
REPORT NO. 4		SHEET1 OF	2
SUBJECT			

PEPSI COLA MANUFACTURING FACILITY 3801 BRIGHTON BOULEVARD BOX CULVERT BACKFILL

				LABOR	ATORY		FIELD			
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION	SOIL TYF	PE
8.	STA. 9+50 35'RIGHT FROM	9.0	NUC	119**	12.5	114	10.8	96***	SAND S	SILTY
9	STA. 11+00 20'RIGHT FROM C.L. OF BOX CULVERT	8.0	NUC	113	16.0		14.0	97	JOB #1:	
10	STA. 11+10 30'RIGHT FROM	6.0	NUC	118	11.5	117	12.7	99	CURVE :	
11	STA. 11+10 25 RIGHT FROM	4.0	NUC	118	11.5	116	12.7	98	11.	1 1
						٠.				
*	BELOW TOP OF CULVERT									
**	ESTIMATED BY A ONE-POINT		L	L	L	<u> </u>	L	L		•

10	C.L. OF BOX CULVERT	6.0	NUC	118	11.5	117	12.7	199	JUD #	11201
	STA. 11+10 25 RIGHT FROM	<u> </u>								
11	C.L. OF BOX CULVERT	4.0	NUC	118	11.5	116	12.7	98	11.	11
		1								
			<u> </u>							
		<u> </u>			.]	•				
									<u> </u>	
		1			1				ļ	
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*	BELOW TOP OF CULVERT									
**	ESTIMATED BY A ONE-POINT	L	<u> </u>	<u> </u>	L		<u> </u>	<u> </u>	<u> </u>	
	***95 ASTM	D 15	57							
SPECIFIC.	ATIONS: 98 % OF MAXIMUM ASTN	LD 69	8	THIS RE	EPORT PRESE	NTS OPINIOI	NS FORMED	AS A RESU	JLT OF OUR OF	BSERVATION
	MOISTURE WITHIN -2 TO +3	% OF O	PTIMUM	OF FILI	L PLACEMEN	T, AS WELL A	S THE TESTS S	SHOWN AB	BOVE. WE HAVE	e relied
TYPE OF C	OMPACTION EQUIPMENT AND NO. OF UNITS:								COMPACTIVE	
(1)	3 WHEEL PACTOR ROLLER								RING TIMES WI R THAN THOSE	
									N WHETHER TH	
MOISTURE	ADDED BY NATURAL				ICATIONS.					
			INCHES							
TYPE OF E	ARTH MOVING EQUIPMENT AND NO. OF UNITS:									
(2)	FRONT_LOADERS									
	•									
ROGRES	REPORT PRIOR TO DUR ARRIVA	LTHE	CONT	RACTOR	PLACE	_APPR	TAMIXO	ELY 3	FEET	E FILL
	RIAL ON THE SOUTH SIDE OF (
	CATED THE WATER THAT WAS PE									
	FILL MATERIAL PLACED CONSIS									
	F-ROLLING INDICATED THIS FI									
	. THE CONTRACTOR REMOVED A									
	BACKFILLED AND RECOMPACTED									
JIN OUI	OPINION, FILL COMPACTION MEETS SPECIFICATION	S AS INDICA	ATED BY O	UR OBSERVA	TIONS AND	TEST NO.(S)		8-11		
] IN OUI	OPINION, FILL COMPACTION DOES NOT MEET SPECI	FICATIONS	AS INDICA	ATED BY OUR	OBSERVATION	ONS AND TE	ST NO.(S)			
AND S	HOULD BE REWORKED									
COPE O	OBSERVATION: [7] FULL TIME; [7] PERIODIC, ON C	CALL BASIS:	[] CON	TRACTOR'S	OR CLIENT'S	REPRESENT	ATIVE ADVIS	SED		
		·								
		•								

CTL/THOMPSON, INC.

DELMAR FISCHER

RONALD M. MC OMBER, P.E. APPROVED BY



CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

DATE: 10-14-85	JO8. NO. 12285	5
REPORT NO. 4	SHEET _2	OF2
SUBJECT		
DEDCT COLA	MANUEL ACTUES TAIC	E ACTL TTV

PEPSI COLA MANUFACTURING FACILITY 3801 BRIGHTON BOULEVARD BOX CULVERT BACKFILL

				LABOR	PATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
		-							
		_							
					· · · · · · · · · · · · · · · · · · ·				
					 		 		
		_							
OFC	MOISTURE WITHINOMPACTION EQUIPMENT AND NO. OF UNITS:	·	•	UPON MOISTI OBSER	THE CONTR URE TO ACH VER IS NOT	ACTOR TO AF HEVE SPECIFIE PRESENT, AND	PPLY THE NE D COMPA AT LOCAT	ECESSARY C ACTION DUR IONS OTHER	OVE. WE HAVE RELIE COMPACTIVE EFFOR ING TIMES WHEN C R THAN THOSE TESTE I WHETHER THE FILL
	ADDED BY			SPECIF	ICATIONS.				
	S OF LIFT WITH MOVING EQUIPMENT AND NO. OF UNITS:		INCHES						
GRESS	DURING SUBSEQUENT AND 11 WERE PERFOR AT APPROXIMATE STA	MED_ON	FILL	PLACEM	MENT E	OR_RAME	ACCE	SS_BE	
	The state of the s	gamma programma i top in the tot diff for to				مينور عمد جامع الدارات ا	pro-bit restress as		THE PARTY STREET ST. ST. ST. ST. ST. ST. ST. ST. ST. ST

CTL/THOMPSON, INC.

RONALD M. MC OMBER, P.E.

APPROVED BY

FIELD REPRESENTATIVE

DELMAR FISCHER

DF : RS



CLIENT:

PEPSI-COLORADO COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

DATE:	10/15/85	JOB. NO	12285	
REPORT	105		SHEET 1 OF 1	
SUBJECT	PEPSI -cot	LA MANUF	FACTURING FA	CILITY
	3801 BRIG	HTON BOI	ULEVARD	
	BOY CHIVE	OT RACK	ETLI	

FIELD

TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
12	WING WALL STA. 11+45			**					SAND
	9' LEFT	5.0	NUC	119	12.5	115	12.4	97	SILTY
13	BOX CULVERT STA. 10+90								CURVE #3
	20 RIGHT	4.0	NUC	122	11.3	113	9.2	93	JOB #11870
14	RETEST OF #13		NUC	122	11.3	117	8.6	96	• •
15	BOX CULVERT STA 9+90								
	35 RIGHT	1.0	NUC	122	11.3	123	11.2	100+	.,
16	BOX CULVERT STA. 11+00								CURVE #1
	30' RIGHT	1.0	NUC	130	7.5	124	7.2	95	JOB #11870
							 		
*					 	 :-			
**	BELOW TOP OF CULVERT ESTIMATED BY A ONE-POINT	L	1_	İ	\	i	}		
AOISTURE HICKNESS	EOMPACTION EQUIPMENT AND NO. OF UNITS: CTOR WIRE WHEEL ROLLER E ADDED BY		INCHES	MOIST OBSER TEST D	URE TO ACH	IIEVE SPECIFI PRESENT, AN	ED COMPA D AT LOCATI	CTION DUI ONS OTHE	COMPACTIVE EFFORT AND RING TIMES WHEN OUR R THAN THOSE TESTED. N WHETHER THE FILL MEETS
ROGRES	RAPERS SREPORT THE CONTRACTOR CON BOX CULVERT. THE CONTRACTO								
	R OPINION, FILL COMPACTION MEETS SPECIFICATIONS R OPINION, FILL COMPACTION DOES NOT MEET SPECI								
AND S	HOULD BE REWORKED FOBSERVATION: FULL TIME; PERIODIC, ON C								

CTL/THOMPSON, INC.

RONALD M. MC OMBER P.E.

APPROVED BY

LABORATORY

DELMAR FISCHER

DF:RS



LIENT:
PEPSI COLA
3801 BRIGHTON BOULEVARD
DENVER, COLORADO 80216

DATE:	10/16/85 JOB. NO. 1228	5
REPORT NO	SHEET : 1 C	F1
SUBJECT	PEPSI-COLA MANUFACTURIN	G FACILITY
	3801 BRIGHTON BOULEVARD	
	BOY OH VEDT BACKETH	

		T		LABOR	RATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
17	STA. 9+90		<u> </u>				<u> </u>		CURVE #3
	20' LEFT	0.0	NUC	122	11.2	117	8.9	96	JDB #11870
18	STA. 9+60								
	25° RIGHT	0.0	NUC	122	11.2	124	10.1	100+	t t
19	STA. 8+55	4						**	CURVE #3
	30 ' RIGHT	0.0	NUC	113	16.0	116	14.0	100+	
20	STA. 10+50	ا ا	l	400					CURVE #3
	25' LEFT	+2.0	NUC	122	11.2	110	12.5	90	JOB #11870
		-{				1	Ţ		<u> </u>
		 	 					 	
		-{	ļ		•			1	
		 	 						
		1				l			
*	FROM TOP OF CULVERT	1	l			 			
**	98% OF MAXIMUM STANDARD A	STM D-	698			İ		1	
²ECIFIC	ATIONS: 95 % OF MAXIMUM AS MOISTURE WITHIN ±2			OF FILI	L PLACEMEN	IT, AS WELL A	S THE TESTS	SHOWN AB	OVE. WE HAVE RELIED
PE OF C 1)P/ OISTURE IICKNES PE OF E 2)SC	MOISTURE WITHIN ±2 COMPACTION EQUIPMENT AND NO. OF UNITS: ACTOR WIRE WHEEL ROLLER E ADDED BY 1) FIRE HOSE S OF LIFT 10 ARTH MOVING EQUIPMENT AND NO. OF UNITS: CRAPERS	% OF O	PTIMUM	OF FILL UPON MOIST OBSER TEST DO SPECIF	L PLACEMEN THE CONTR URE TO ACH EVER IS NOT I ATA ARE NOT FICATIONS.	IT, AS WELL A ACTOR TO A IEVE SPECIFI PRESENT, ANI THE SOLE BA	S THE TESTS: PPLY THE NE ED COMPA O AT LOCATI ASIS FOR OF	SHOWN AB CESSARY C CTION DUR ONS OTHER PINIONS ON	COMPACTIVE EFFORT AN ING TIMES WHEN OUR R THAN THOSE TESTED. I WHETHER THE FILL MEET
PE OF C 1)P/ OISTURE IICKNES PE OF E 2)SC	MOISTURE WITHIN	% OF O	PTIMUM INCHES	OF FILL UPON MOIST OBSER TEST DO SPECIF	L PLACEMEN THE CONTR URE TO ACH WER IS NOT I ATA ARE NOT HICATIONS.	IT, AS WELL A ACTOR TO A IEVE SPECIFI PRESENT, AND THE SOLE BA	S THE TESTS: PPLY THE NE ED COMPA O AT LOCATI ASIS FOR OF	SHOWN AB CESSARY C CTION DUR ONS OTHER PINIONS ON	OVE. WE HAVE RELIED COMPACTIVE EFFORT AN ING TIMES WHEN OUR RITHAN THOSE TESTED. I WHETHER THE FILL MEET THE FILL
PE OF C 1)P/ OISTURE IICKNES PE OF E 2)SC	MOISTURE WITHIN	% OF O	PTIMUM INCHES	OF FILL UPON MOIST OBSER TEST DO SPECIF	L PLACEMEN THE CONTR URE TO ACH WER IS NOT I ATA ARE NOT HICATIONS.	IT, AS WELL A ACTOR TO A IEVE SPECIFI PRESENT, AND THE SOLE BA	S THE TESTS: PPLY THE NE ED COMPA O AT LOCATI ASIS FOR OF	SHOWN AB CESSARY C CTION DUR ONS OTHER PINIONS ON	OVE. WE HAVE RELIED COMPACTIVE EFFORT AN ING TIMES WHEN OUR RITHAN THOSE TESTED. I WHETHER THE FILL MEET THE FILL
PE OF C 1)P/ OISTURE IICKNES PE OF E 2)SC	MOISTURE WITHIN	% OF O	PTIMUM INCHES	OF FILL UPON MOIST OBSER TEST DO SPECIF	L PLACEMEN THE CONTR URE TO ACH WER IS NOT I ATA ARE NOT HICATIONS.	IT, AS WELL A ACTOR TO A IEVE SPECIFI PRESENT, AND THE SOLE BA	S THE TESTS: PPLY THE NE ED COMPA O AT LOCATI ASIS FOR OF	SHOWN AB CESSARY C CTION DUR ONS OTHER PINIONS ON	OVE. WE HAVE RELIED COMPACTIVE EFFORT AN ING TIMES WHEN OUR RITHAN THOSE TESTED. I WHETHER THE FILL MEET THE FILL
PE OF C 1)P/ OISTURE IICKNES PE OF E 2)SC	MOISTURE WITHIN	% OF O	PTIMUM INCHES	OF FILL UPON MOIST OBSER TEST DO SPECIF	L PLACEMEN THE CONTR URE TO ACH WER IS NOT I ATA ARE NOT HICATIONS.	IT, AS WELL A ACTOR TO A IEVE SPECIFI PRESENT, AND THE SOLE BA	S THE TESTS: PPLY THE NE ED COMPA O AT LOCATI ASIS FOR OF	SHOWN AB CESSARY C CTION DUR ONS OTHER PINIONS ON	OVE. WE HAVE RELIED COMPACTIVE EFFORT AN ING TIMES WHEN OUR RITHAN THOSE TESTED. IN WHETHER THE FILL MEE
PE OF C 1)P/ OISTURE IICKNES PE OF E 2)SC	MOISTURE WITHIN	% OF O	PTIMUM INCHES	OF FILL UPON MOIST OBSER TEST DO SPECIF	L PLACEMEN THE CONTR URE TO ACH WER IS NOT I ATA ARE NOT HICATIONS.	IT, AS WELL A ACTOR TO A IEVE SPECIFI PRESENT, AND THE SOLE BA	S THE TESTS: PPLY THE NE ED COMPA O AT LOCATI ASIS FOR OF	SHOWN AB CESSARY C CTION DUR ONS OTHER PINIONS ON	OVE. WE HAVE RELIED COMPACTIVE EFFORT AN ING TIMES WHEN OUR RITHAN THOSE TESTED. I WHETHER THE FILL MEET OUT THE FILL MEET OUT OUT OUT OUT OUT OUT OUT OUT OUT OU
OISTURE IICKNES PE OF E 2)SC COUL	MOISTURE WITHIN	NTINUE	INCHES S FIL TO RE	OF FILL UPON MOIST OBSER TEST DO SPECIF	L PLACEMEN THE CONTR URE TO ACH WER IS NOT I ATA ARE NOT HICATIONS.	IT AS WELL A ACTOR TO A IEVE SPECIFI PRESENT AND THE SOLE BA	STHE TESTS: PPLY THE NE ED COMPA D AT LOCATI ASIS FOR OF	SHOWN AB CESSARY C CTION DUR ONS OTHER PINIONS ON SIDE #20.	OVE. WE HAVE RELIED COMPACTIVE EFFORT AN ING TIMES WHEN OUR R THAN THOSE TESTED. I WHETHER THE FILL MEET
PE OF C 1)P/ OISTURE IICKNES PE OF E 2)SC CUL.\	MOISTURE WITHIN	NTINUE ACTOR	INCHES S FIL TO RE	OF FILL UPON MOIST OBSER TEST DO SPECIF	L PLACEMEN THE CONTR URE TO ACH WER IS NOT I ATA ARE NOT HICATIONS.	IT AS WELL A ACTOR TO A ACTOR TO A IEVE SPECIFI PRESENT AND THE SOLE BA THE SOLE B	STHE TESTS: PPLY THE NE ED COMPA D AT LOCATI ASIS FOR OF	SHOWN AB CESSARY C CTION DUR ONS OTHER PINIONS ON SIDE #20.	OVE. WE HAVE RELIED COMPACTIVE EFFORT AN ING TIMES WHEN OUR R THAN THOSE TESTED. I WHETHER THE FILL MEE

CTL/THOMPSON, INC.

APPROVED BY RONALD M. MC OMBER P.E.



CLIENT:

LD REPRESENTATIVE

JC:PV

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

DATE: 11-2-85	JOB. NO	12285	
REPORT NO.	7	SHEET_1_ OF	1
SUBJECT			

PEPSI-COLA MANUFACTURING FACILITY 3801 BRIGHTON BLVD. BOX CULVERT BACKFILL

				LABOR	ATORY	······································	FIELD		·
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION ·%	SOIL TYPE
	STA. 10+60 ON C.L. OF THE								CURVE #2
21	CULVERT	11.0	NUC	126.5	10.0	122	11.6	96	JOB #11870
22	STA. 10+40 ON C.L. OF THE CULVERT	10.0	NUC	126 5	10.0	120	11.1	95	., ,,
22		10.0	INOC	120.3	10.0	120	****	1-33-1	
23	STA. 10+85 12'LEFT FROM C.L. OF CULVERT	10.0	NUC	126.5	10.0	123	11.0	97	11 11
	STA. 9+60 ON C.L. OF THE								CURVE #4
24	CULVERT	4.0	NUC	118	11.5	116	12.3	98	JOB #11381
25	STA. 9+16 6'RIGHT FROM	2.0	NUC	118	11.5	119	11.4	100+	11 11
	STA, 10+63 36 RIGHT FROM								CURVE #2
<u>26</u>	C.L. OF THE CULVERT	8.0	NUC	126.5	10.0	121	11.6	96	JOB #11870
'									
					, 				·
*	BELOW GRADE		<u></u>				<u> </u>		

DELUW GRADE			1						
PECIFICATIONS: 95 % OF MAXIMUM AST! MOISTURE WITHIN ± 2 (PE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (1) "REX" ROLLER IOISTURE ADDED BY (1) WATER TRUCK HICKNESS OF LIFT 8 PE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: (2) SCRAPERS ROGRESS REPORT THE CONTRACTOR RESUME!	% OF OPTI	IMUM ICHES BACKF	OF FILL UPON' MOISTI OBSER TEST DA SPECIF	PLACEMEN THE CONTRA JRE TO ACHI VER IS NOT P TA ARE NOT ICATIONS.	T, AS WELL A: ACTOR TO AI BEVE SPECIFIE PRESENT, AND THE SOLE BA	S THE TESTS S PPLY THE NEC ED COMPAC O AT LOCATIC ASIS FOR OPI	HOWN AB CESSARY C CTION DUR DNS OTHER NIONS ON	LT OF OUR OBSE OVE, WE HAVE R OMPACTIVE EFF ING TIMES WHEI PITHAN THOSE TE WHETHER THE F	ELIED FORT AND N OUR ISTED. IILL MEETS
ROGRESS REPORT THE CONTRACTOR RESUMES STATION 8+50 TO 11+10. IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIF	AS INDICAT	ED BY OU	R OBSERVA	TIONS AND	TEST NO.(S)		21-20	5	
AND SHOULD BE REWORKED COPE OF OBSERVATION: FULL TIME; PERIODIC, ON C.									
DELMAR FISCHER/JIM CARETTO	COMMANDE OF COLUMN 2 STATE		CTL/THOM	PSON, INC.	an algorithm to comparable on the scale of the scale of				

APPROVED BY

RONALD M. MC OMBER, P.E.



CLIENT: PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

DATE:11-8-85	JOB. NO	12285	
REPORT NO	12	SHEET1 OF.	
SUBJECT			

PEPSI-COLA MANUFACTURING FACILITY 3801 BRIGHTON BLVD. BOX CULVERT BACKFILL

				LABOR	ATORY		FIELD			
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	omc %	DRY DENSITY PCF	MC %	COM- PACTION %	SOI	L TYPE
	STA. 7+50, 15 RIGHT FROM								CURVE	#2
40	C.L. OF THE BOX CULVERT	12.0	NUC	124.5	9.5	120	8.8	96	JOB /	¥11381
	STA. 6+30, 8'RIGHT FROM	1 1				1		1 1		
41	C.L. OF THE BOX CULVERT	12.0	NUC	124.5	9.5	120	11.8	96	''	• • • • • • • • • • • • • • • • • • • •
		1								
		 								
		ļ				ļ				
					-	1				
:		1								
*	BELOW GRADE	1]]		
MOISTURE HICKNESS PE OF EA	SHEEPSFOOT ROLLER ADDED BY		INCHES	MOISTI OBSER TEST DA SPECIF	URETO ACH VER IS NOT I ITA ARE NOT ICATIONS.	HEVE SPECIFIE PRESENT, AND THE SOLE BA	ED COMPAC) AT LOCATIV SIS FOR OP	CTION DUR ONS OTHER INIONS ON	ING TIMES I RTHAN THO I WHETHER I	SE TESTED. THE FILL MEET
	WEST.									
INOUR	OPINION, FILL COMPACTION MEETS SPECIFICATIONS	S AS INDICA	ATED BY OL	JR OBSERVA	TIONS AND	TEST NO.(S) .		40_4	1	

CTL/THOMPSON, INC.

RONALD M. MC OMBER, P.E.

APPROVED BY

JAMES N. CARETTO



CLIENT: PEPSI-COLA COMPANY
3801 BRIGHTON BOULEVARD
DENVER, COLORADO 80216

DATE: 11-12-85	JOB. NO	12285	
REPORT NO	13	SHEET_1_ OF	1
SUBJECT			

PEPSI-COLA MANUFACTURING FACILITY 3801 BRIGHTON BOULEVARD BOX CULVERT BACKFILL

				LABOR	PATORY		FIELD			
test No.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL	TYPE
	STA. 8+25, 10'LEFT OF							***	CURVE	#3
42	BOX CULVERT	2.0	NUC	122	11.3	110	13.2		JOB #	
	STA. 4+70, 10 LEFT DF	4	Ì			Ì				
j	BOX_CULVERT	2.0	NUC_	122	11.3	108	11.3	89	. 1 1	• • • • • • • • • • • • • • • • • • • •
	STA. 11+70, 80'RIGHT OF							***	1 1	
4	BOX_CULVERT	1-0	NUC.	122	11.3	118	12.1	97		
		-		İ						
		 								
		1]]		
*	BELOW GRADE	_								
*	TO TOP OF CULVERT		<u> </u>		<u></u>	<u> </u>	<u> </u>	<u> </u>	L	
**	95% ASTM D 1557									
	SHEEPSFOOT			OBSER	VER IS NOT F	PRESENT, AND		ONS OTHER	ING TIMES W THAN THOSE TWILETHED TH	TESTED.
ISTURE CKNESS OF EA	ARTH MOVING EQUIPMENT AND NO. OF UNITS:		INCHES		RICATIONS.	WE SOLE O			WIEITEK II	IE FILL MEE
ISTURE CKNESS OF EA (2)	SOF LIFT 8-10	RE COME	PACTIV	SPECIF SPECIF	ICATIONS.	THE AF		T OF	THE BO	Χ
ISTURE CKNESS COF EAC CQ CQ CQ CQ CQ CQ CQ CQ CQ CQ CQ CQ CQ	SOF UFT	RE COME	PACTIVE WOL	SPECIF SPECIF	RT IN DMPACT	THE AF	AREA	T OF	THE BO	Χ
IN OUR	SOF LIFT	RE_COME CATED_H S.	PACTIVE WOL	SPECIFICATION OF THE SPECIFIC SPECIFICATION OF THE	TIONS AND	THE AF	AREA	ET OF AND RE	THE BO	X

APPROVED BY

RONALD M. MC OMBER, P.E.

LD REPRESENTATIVE



CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLDRADO 80216

DATE: 11-13-8!	5 JOB. NO	12285	
REPORT NO	14	_ SHEET1 OF	
UBJECT			

PEPSI COLA MANUFACTURING FACILITY 3801 BRIGHTON BLVD. BOX CULVERT BACKFILL

				LABOR	PATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
				400		44-			CURVE #3
428	RETEST OF #42	 -	NUC	122	11.3	113	12.5	93**	JOB #11870
43A	RETEST OF #43		NUC	122	11.3	113	12.2	93	
								**	
428	RETEST OF #42	L _	NUC	122	11.3	122	11.1	100	11 11
	STA. 7+05 10'LEFT OF								1, 1,
45	BOX_CULVERT	0.0	NUC	122	11.3	109	11.5	89	
46	STA. 6+25 10 LEFT OF BOX CULVERT	0.0	NUC	122	11.3	108	13.6	89.	11 11
						!			
*	BELOW TOP OF CULVERT	 				· · ·			
**	95% OF ASTM D 1557	l							

MOISTURE WITHIN	<u></u>	% OF OPTIMUM	OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE, WE F	
YPE OF COMPACTION EQUIPMENT AND N (1) SHEEPSFOOT ROLLE		***	UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTI MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THE	S WHEN OUR
MOISTURE ADDED BY (1) WATE HICKNESS OF LIFT 6 7 YPE OF EARTH MOVING EQUIPMENT AND (2) SCRAPERS (1) DOZ	O 8 NO. OF UNITS:		TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHEI SPECIFICATIONS.	? The fill meets
BACKFILL UP TO THE 1	OP OF THE ILTS OF TE	BOX CULVERT ST 45, 46 AND	CONTRACTOR HAD REWORKED AND COMPLE LEFT OF CENTER LINE. THE CONTRAC WE RECOMMENDED MORE COMPACTIVE E	CTOR WAS
3 IN OUR OPINION, FILL COMPACTION D AND SHOULD BE REWORKED	OES NOT MEET SPE	CIFICATIONS AS INDICAT	R OBSERVATIONS AND TEST NO.(S) 43A, 42B, 45, 4 ED BY OUR OBSERVATIONS AND TEST NO.(S) RACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED RON (JC	

% OF MAXIMUM ASTM D 1557

CTL/THOMPSON, INC.

THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION



CLIENT: PEPSI COLA COMPANY
3801 BRIGHTON BOULEVARD
DENVER, COLORADO 80216

DATE: 11-14-85	JOB. NO	1	2285		
REPORT NO.	15	SHEET	1 OF	1	
CLIDICOT					

PEPSI COLA MANUFACTURING FACILITY 3801 BRIGHTON BLVD. BOX CULVERT BACKFILL

THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION

				LABOR	PATORY		FIELD			
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	sc	OIL TYPE
	8+30 20 RIGHT OF BOX								CURV	E #2
47	CULVERT	5.0	NUC	126.5	10.0	126	10.1	99	JOB	#11870
	7+40 20'RIGHT OF BOX			1			ł			
48	CULVERT	+1.0	NUC	126.5	10.0	127	13.8	100	11	• •
	6+80 20 RIGHT OF BOX	1								
49	CULVERT	0.0	NUC	126.5	10.0	120	9.5	95**	11	* * *
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		_					}			
							ļ <u>.</u>			
*	ROM TOP OF CULVERT (+ IND	CATES	ABOV	E THE	CULVER	T STRU	CTURE)			
**	90% OF ASTM D 1557	<u> </u>					L	L		

95 % OF MAXIMUM ASTM D 1557

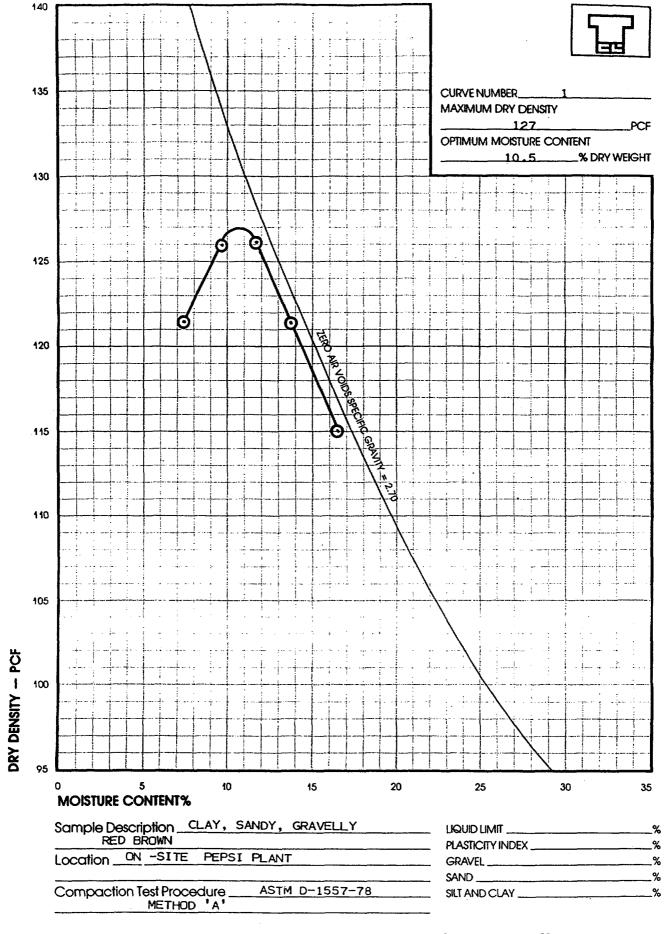
TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (1) SHEEPSFOOT ROLLER		UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS
MOISTURE ADDED BY		SPECIFICATIONS.
THICKNESS OF LIFT6-8	INCHES	
TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:		
(2) SCRAPERS, (1) DOZER		
√ IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATION.	S AS INDICATED BY OUR	OBSERVATIONS AND TEST NO.(S) 47-49 ED BY OUR OBSERVATIONS AND TEST NO.(S)
AND SHOULD BE REWORKED		••
SCOPE OF OBSERVATION: [1] FULL TIME; [1X PERIODIC, ON C	CALL BASIS; XT CONTR	PACTOR'S OR CLIENT'S REPRESENTATIVE ADVISEDRON(.JOB FOREMAN.)

CTL/THOMPSON, INC.

JAMES N. CARETTO

APPROVED BY

RONALD M. MC OMBER, P.E.



Compaction Test Results



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE., DENVER, CO 80204 (303) 825-0777

CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

DATE: 1-17-86	JOB. NO.	12285	
REPORT NO	16.	SHEET 1 OF1	
SUBJECT			

PEPSI COLA MANUFACTURING FACILITY 3801 BRIGHTON BLVD. BOX CULVERT BACKFILL

		·		LABOR	ATORY		FIELD		
TEST NO.	LOCATION **	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
_50	STA. 5 + 50	3.0	NUC	122	11.3	117	10.4	96	CURVE #3 JOB #11870
51	STA. 3 + 00	3.0	NUC	122	11.3	115	10.7	94	11 11
52	STA. 3 + 30, 10'S OF SANITARY SEWER LINE	1.5	NUC	126.5	10.0	126	9.2	100	CURVE #2 JOB #11870
53	STA. 5 + 00	1.5	NUC	126.5	10.0	123	10.1	98	11 11
54	STA. 6 + 50, 10 N OF SANITARY SEWER LINE	1.5	NUC	126.5	10.0	126	9.6	100	11 11
*	BELOW GRADE STATIONS TAKEN FROM SANITA	RY SE	WER L	INE					

SPECIFICATIONS: 95 % OF MAXIMUM ASTM D 1557 MOISTURE WITHIN + 3 % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (1) REX SHEEPSFOOT ROLLER MOISTURE ADDED BY	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS SPECIFICATIONS.
THICKNESS OF LIFT 3-6 INCHES	
TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: (2) SCRAPERS, (1) BACKHOE	
WERE PERFORMED TO CHECK MOISTURE AND COM	FILL OVER THE BOX CULVERT, TESTS 50 AND 51 PACTION OF FILL COMPACTED PRIOR TO FREEXING ACED BETWEEN STATIONS 2 + 50 AND 7 + 00.
AND SHOULD BE REWORKED	OUR OBSERVATIONS AND TEST NO.(S)

CTL/THOMPSON, INC.

RONALD M. MC OMBER, P.E.

APPROVED BY

FIELD REPRESENTATIVE

KIRK D. SKINNER



CLIENT:

PEPSI COLA COMPANY 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

DATE: 1-20-86	JOB. NO	122	85	-
REPORT NO	_ 17	SHEET1	OF	1
SHRIECT				

PEPSI COLA MANUFACTURING FACILITY 3801 BRIGHTON BOULEVARD BOX CULVERT BACKFILL

				LABOR	ATORY	<u> </u>	FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	STATION 6+80 @								CURVE #3
55	SEWER LINE	0.0	NUC	122	11.3	121	11.4	99	JOB #11870
	STATION 4+75, 15'S OF								CURVE #2
56	SEWER LINE	0.0	NUC	126.5	10.0	122	12.2	96	JOB #11870
	STATION 2+50, 10'N OF							**	CURVE #1
57	SEWER LINE	0.0	NUC	128.5	9.5	129	9.5	100	JOB #12167
						ł		į į	
							1		
						1			
						<u> </u>	<u> </u>		
			l		[l		[
								L	
*	BELOW GRADE		1	1	1	1	1		
**	98 PERCENT OF MAXIMUM ASTN	D 69	8			<u>L</u>	<u> </u>		

** 98 PERCENT DE MAXIMUM ASTN D 698	
PECIFICATIONS: 95 % OF MAXIMUM ASTM D 1557 MOISTURE WITHIN ± 3 % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (1) SHEEPSFOOT ROLLER (REX)	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE, WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS
MOISTURE ADDED BY	SPECIFICATIONS.
THICKNESS OF LIFT 4-6 INCHES	
YPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:	
(2) SCRAPERS, (1) BLADE	
2+00 AND STATION 7+00.	
₹ IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OU	
IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICAT AND SHOULD BE REWORKED	ED BY OUR OBSERVATIONS AND TEST NO.(S)
COPE OF OBSERVATION: [] FULL TIME; []X PERIODIC, ON CALL BASIS; []X CONTI	ACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED _RONZREID_BURTON_

APPROVED BY

RONALD M. MC OMBER, P.E.

FIELD REPRESENTATIVE

KIRK D. SKINNER



CLIENT:

PEPSI-COLA COMPANY OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216 ATTN: MR. DON PATTON

95__

SPECIFICATIONS:

DATE:	09/11/85 JOB NO. 12167
REPORT NO	SHEET 1 OF 1
SUBJECT	PEPSI-COLA PLANT
	BUILDING ADDITION
2 A	3801 BRIGHTON BOULEVARD
	UTILITY TRENCH BACKFILL

THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION

			<u> </u>	LABOR	RATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
1	GASLINE TRENCH BACKFILL 75 F. FROM N.F. COR. OF								
	PARKING LOT	1.0	NUC	126.6	10.0	106	6.5	84	CURVE #2 JOB #11870
2	RETEST OF #1		NUC	126.5	10.0	109	7.2	86	t t
3	95'S. FROM N.E. COR. OF PARKING LOT	0.0	NUC	126.5	10.0	110	9.6	87	
4	15'S. FROM N.E. COR. OF PARKING LOT	0.5	NUC	122	11.3	106	10.0	87	CURVE #3 JOB #11870
·									
*	BELOW GRADE								

% OF MAXIMUMASTM_D-1557

MOISTURE WITHIN <u>+2</u> % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: 1) VIBRATORY SHEEPSFOOT ROLLER	OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS
MOISTURE ADDED BY 1) WATER TRUCK	SPECIFICATIONS.
THICKNESS OF LIFTINCHES	
TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:	
1) FRONT_END_LOADER	
THE CONTRACTOR INDICATED THE DEPTH OF THE 12 TO 18 INCHES. THE CONTRACTOR ATTEMPTED SURFACE WITH A VIBRATORY SHEEPSFOOT ROLLER	_TO_ COMPACT.THE: TRENCH BACKFILL FROM THEDUE_TO_THE_WIDTH_OF_THE_ROLLER_EXCEEDING WAS_NOT_EFFECTIVETHE CONTRACTOR_WAS_ADVISED
☐ IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OU	
M OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED AND SHOULD BE REWORKED	TED BY OUR OBSERVATIONS AND TEST NO.(S) 1-4
SCOPE OF OBSERVATION: $\ \Box \ $ FULL TIME; $\ X $ PERIODIC, ON CALL BASIS; $\ \boxtimes \ $ CONT	RACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED RON (REID=BARTON).
	CTL/THOMPSON, INC.
DELMAR_EISCHER PIELD REPRESENTATIVE DF; RS	APPROVED BY RONALD M. MC OMBER P.E.



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE., DENVER, CO 80204 (303) 825-0777

CLIENT:

PEPSI COLA COMPANY OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216 ATTN: DON PATTON

DATE:	09/12/85JOB NO.	12167	
REPORT NO	o2	SHEET 1 OF	1
SUBJECT	PEPSI-COLA PLANT		
	3801 BRIGHTON BOX	JLEVARD	
	CAS I THE TRENCH	BACKETH	

	·			LABORATORY		FIELD			
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
5	95' W. FROM C.L. OF								CURVE #3
	BRIGHTON BOULEVARD	1.2	NUC	122	11.3	110	12.8	90	JOB #11870
6	200 W. FROM C.L. OF								
	BRIGHTON BOULEVARD	1.2	NUC	122	11.3	115	11.6	94	1 6
		1					ľ		
		<u> </u>							<u> </u>
		4							
		 	 			<u> </u>		 	
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		-				1	1		
*	BELOW GRADE	 	 				 	 	
	BELOW GRADE	-				ŀ			
		 						-	
		1				1			
PECIFIC	ATIONS: 95 % OF MAXIMUM AS MOISTURE WITHIN ±2	TM D-1							ILT OF OUR OBSERVATIO OVE, WE HAVE RELIED
YPE OF (HYDF	MOISTURE WITHIN	% OF O	PTIMUM	OF FILI UPON MOIST OBSER TEST DA	PLACEMENTHE CONTRUCE TO ACHIVER IS NOT I	IT, AS WELL A ACTOR TO A IIEVE SPECIFI PRESENT, ANI	S THE TESTS: PPLY THE NE ED COMPAI O AT LOCATI	SHOWN AB CESSARY C CTION DUR ONS OTHER	OVE, WE HAVE RELIED COMPACTIVE EFFORT AN RING TIMES WHEN OUR R THAN THOSE TESTED.
PE OF OF OF OF OTHER PROPERTY OF THE PROPERTY	MOISTURE WITHIN	% OF O	PTIMUM	OF FILI UPON MOIST OBSER TEST DA	L PLACEMEN THE CONTR URE TO ACH WER IS NOT I NTA ARE NOT	IT, AS WELL A ACTOR TO A IIEVE SPECIFI PRESENT, ANI	S THE TESTS: PPLY THE NE ED COMPAI O AT LOCATI	SHOWN AB CESSARY C CTION DUR ONS OTHER	OVE. WE HAVE RELIED COMPACTIVE EFFORT AN RING TIMES WHEN OUR R THAN THOSE TESTED.
YPE OF C HYDE HOISTUR HICKNES YPE OF E	MOISTURE WITHIN		PTIMUM	OF FILI UPON MOIST OBSER TEST DO SPECIF	PLACEMENTHE CONTR THE CONTR URE TO ACH VER IS NOT I ATA ARE NOT ICATIONS.	IT, AS WELL A: ACTOR TO A: IIEVE SPECIFI PRESENT, AND THE SOLE BA	S THE TESTS: PPLY THE NE ED COMPA O AT LOCATI ASIS FOR OF	SHOWN AB CESSARY C CTION DUF ONS OTHER PINIONS ON	OVE. WE HAVE RELIED COMPACTIVE EFFORT AN RING TIMES WHEN OUR R THAN THOSE TESTED. N WHETHER THE FILL MEE
YPE OF C HYDE HOISTUR HICKNES YPE OF E	MOISTURE WITHIN	%OFO	PTIMUM	OF FILI UPON MOIST OBSER TEST DA SPECIF	PLACEMENTHE CONTR THE CONTR URE TO ACH VER IS NOT I ATA ARE NOT ICATIONS.	IT, AS WELL A: ACTOR TO A: IIEVE SPECIFI PRESENT, AND THE SOLE BA	S THE TESTS: PPLY THE NE ED COMPA O AT LOCATI ASIS FOR OF	SHOWN AB CESSARY C CTION DUF ONS OTHER PINIONS ON	OVE. WE HAVE RELIED COMPACTIVE EFFORT AN RING TIMES WHEN OUR R THAN THOSE TESTED. N WHETHER THE FILL MEE
YPE OF C HYDE HOISTUR HICKNES YPE OF E	MOISTURE WITHIN		PTIMUM	OF FILL UPON MOIST OBSER TEST DA SPECIF	PLACEMENTHE CONTR URE TO ACH WER IS NOT I ATA ARE NOT EICATIONS.	IT, AS WELL A: ACTOR TO A: IEVE SPECIFI PRESENT, AND THE SOLE BA	S THE TESTS: PPLY THE NE ED COMPA O AT LOCATI ASIS FOR OF	SHOWN AB CESSARY C CTION DUIT ONS OTHER PINIONS ON	COMPACTIVE EFFORT AN RING TIMES WHEN OUR R THAN THOSE TESTED. N WHETHER THE FILL MEE
YPE OF C HYDE HOISTUR HICKNES YPE OF E	MOISTURE WITHIN ±2 COMPACTION EQUIPMENT AND NO. OF UNITS: RO—HAMMER E ADDED BY S OF LIFT ARTH MOVING EQUIPMENT AND NO. OF UNITS: S REPORT PRIOR TO TESTING (DRO—HAMMER.)		PTIMUM	OF FILL UPON MOIST OBSER TEST DA SPECIF	PLACEMENTHE CONTR URE TO ACH WER IS NOT I ATA ARE NOT EICATIONS.	IT, AS WELL A: ACTOR TO A: IEVE SPECIFI PRESENT, AND THE SOLE BA	S THE TESTS: PPLY THE NE ED COMPA O AT LOCATI ASIS FOR OF	SHOWN AB CESSARY C CTION DUIT ONS OTHER PINIONS ON	OVE. WE HAVE RELIED COMPACTIVE EFFORT AN RING TIMES WHEN OUR R THAN THOSE TESTED. N WHETHER THE FILL MEE
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YPE OF C HYDE HOISTUR HICKNES YPE OF E	MOISTURE WITHIN ±2 COMPACTION EQUIPMENT AND NO. OF UNITS: RO—HAMMER E ADDED BY S OF LIFT ARTH MOVING EQUIPMENT AND NO. OF UNITS: S REPORT PRIOR TO TESTING (DRO—HAMMER.)		PTIMUM	OF FILL UPON MOIST OBSER TEST DA SPECIF	PLACEMENTHE CONTR URE TO ACH WER IS NOT I ATA ARE NOT EICATIONS.	IT, AS WELL A: ACTOR TO A: IEVE SPECIFI PRESENT, AND THE SOLE BA	S THE TESTS: PPLY THE NE ED COMPA O AT LOCATI ASIS FOR OF	SHOWN AB CESSARY C CTION DUIT ONS OTHER PINIONS ON	OVE. WE HAVE RELIED COMPACTIVE EFFORT AN RING TIMES WHEN OUR R THAN THOSE TESTED. N WHETHER THE FILL MEE
MYPE OF C HYDF MOISTUR HICKNES MPE OF E ROGRES A HY	MOISTURE WITHIN	THE CO	PTIMUM	OF FILI UPON MOIST OBSER TEST D SPECIF	PLACEMEN THE CONTR URE TO ACH WER IS NOT I ATA ARE NOT ICATIONS.	IT AS WELL A ACTOR TO A IIEVE SPECIFI PRESENT, AND THE SOLE BA	S THE TESTS: PPLY THE NE ED COMPA D AT LOCATI ASIS FOR OF	SHOWN AB CESSARY C CTION DUR ONS OTHER PINIONS ON	OVE. WE HAVE RELIED COMPACTIVE EFFORT AN RING TIMES WHEN OUR R THAN THOSE TESTED. N WHETHER THE FILL MEE
MYPE OF C HYDE MOISTUR HICKNES MYPE OF E ROGRES A HY	MOISTURE WITHIN ±2 COMPACTION EQUIPMENT AND NO. OF UNITS: RO—HAMMER E ADDED BY S OF LIFT ARTH MOVING EQUIPMENT AND NO. OF UNITS: S REPORT PRIOR TO TESTING (DRO—HAMMER.)	THE CO	PTIMUM INCHES NTRAC	OF FILL UPON MOIST OBSER TEST DO SPECIF	PLACEMEN THE CONTR URE TO ACH WER IS NOT I ATA ARE NOT ICATIONS. D. RECO	IT AS WELL A ACTOR TO A ITEVE SPECIFI PRESENT, AND THE SOLE BA MPACTE TEST NO.(S)	S THE TESTS: PPLY THE NE ED COMPA D AT LOCATI ASIS FOR OF	SHOWN AB CESSARY C CTION DUR ONS OTHER PINIONS ON	OVE. WE HAVE RELIED COMPACTIVE EFFORT AN RING TIMES WHEN OUR R THAN THOSE TESTED. N WHETHER THE FILL MEE

DELMAR FISCHER
HELD REPRESENTATIVE
DF:RS

APPROVED BY

CTL/THOMPSON, INC.

SCOPE OF OBSERVATION: 🗆 FULL TIME: 🖄 PERIODIC, ON CALL BASIS; 🖄 CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED RON/REID BURTON

RONALD M. MC OMBER P.E.

-DELMAR FISCHER-FIELD REPRESENTATIVE

DF:RS



CHENT.	
CUENI:	

PEPSI-COLA COMPANY OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216 ATTN: MR. DON PATTON

DATE:	09/13/85 JOB.N	012167			
REPORT NO	o 3	SHEET 1 OF	1		
SUBJECT	PEPSI-COLA PL	ANT			
3801 BRIGHTON BOULEVARD					
	GASLINE TRENCH	H BACKETI I			

FIELD

TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE	
7	75' N. FROM N.E. COR. OF								CURVE #2	
Ľ.	PARKING LOT	1.4	SAND	126.5	10.0	105	5.6	83	JOB #11870	
8	35' W. FROM N.E. COR. OF]	ĺ							
	PARKING LOT	1.5	SAND	126.5	10.0	105	8.0	83	11	
9	350' W. FROM C.L. OF	1	l	**					COAL CINDERS	
	BRIGHTON BOULEVARD	1.5	SAND	85	15.0	79	11.8	93		
10	75'S FROM N.E. COR. OF	1	1						CURVE #1	
 	PARKING LOT	1.5	SAND	122	11.3	99	7.1	81	JOB #11870	
1		4	}	}		1				
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1]	}					1		
<u> </u>		ļ				ļ	Ļ	ļ		
*	BELOW GRADE	4					1	1		
**	LESTIMATED BY A ONE-POINT F	ROCTO	k	L		<u> </u>	<u> </u>	<u> </u>	L	
1)HY MOISTURE	SPECIFICATIONS:95 % OF MAXIMUMASTM_D-1557									
OBSE COMP REID	PROGRESS REPORT THE CONTRACTOR CONTINUES THE RECOMPACTION OF THE GAS LINE TRENCH BACKFILL. OBSERVATION OF COMPACTION INDICATES THE BACKFILL MATERIAL MAYBE DISPLACING RATHER THAN COMPACTING DUE TO THE LOOSE EXISTING FILL SURROUNDING THE TRENCH BACKFILL. RON WITH REID-BURTON INDICATED RECOMPACTION WOULD CONTINUE AND ADDITIONAL REWORKING AND RECOMPACTION WOULD BE PERFORMED DURING THE PARKING LOT SUBGRADE PREPARATION.									
M IN ON	☐ IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(S)									
	HOULD BE REWORKED FOBSERVATION: 🗍 FULL TIME; 🔀 PERIODIC, ON C	CALL BASIS;	⊠ сои	TRACTOR'S	OR CLIENT'S	S REPRESENT	ATIVE ADVIS	SED RON	(REID/BURTON)	

CTL/THOMPSON, INC.

RONALD M. MC OMBER P.E.

APPROVED BY

LABORATORY



CLIENT: PEPSI-COLA COMPANY OF DENVER 3801 BRIGHTON BOULEVARD

DENVER, COLORADO 80216

ATTN:MR DON PATTON

DELMAR FISCHER

FIELD REPRESENTATIVE DF : RS

REPORT NO.4 SHEET 1 OF

DATE: 09/16/85 JOB. NO. 12167

SUBJECT PEPSI-COLA PLANT

3801 BRIGHTON BOULEVARD GAS LINE TRENCH BACKFILL

RONALD M. MC OMBER P.E.

				LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	<u> </u>								
			<u> </u>			-			
								1	
								-	
							ļ <u>.</u>		
	MOISTURE WITHIN			OF FILL	PLACEMEN	NT, AS WELL AS	THE TESTS	SHOWN ABO	LT OF OUR OBSERVATION OVE. WE HAVE RELIED OMPACTIVE EFFORT AND
				OF FILL UPON MOISTI OBSER	. PLACEMEN THE CONTR URE TO ACH VER IS NOT	NT, AS WELL AS ACTOR TO A HIEVE SPECIFII PRESENT, AND	THE TESTS PPLY THE N ED COMP O AT LOCA	SHOWN ABO ECESSARY C ACTION DURI TONS OTHER	OVE. WE HAVE RELIED
DISTURE	MOISTURE WITHIN OMPACTION EQUIPMENT AND NO. OF UNITS: ADDED BY	% OF OF	PTIMUM	OF FILL UPON MOISTI OBSER TEST DA	. PLACEMEN THE CONTR URE TO ACH VER IS NOT	NT, AS WELL AS ACTOR TO A HIEVE SPECIFII PRESENT, AND	THE TESTS PPLY THE N ED COMP O AT LOCA	SHOWN ABO ECESSARY C ACTION DURI TONS OTHER	OVE, WE HAVE RELIED OMPACTIVE EFFORT AND ING TIMES WHEN OUR ITHAN THOSE TESTED.
DISTURE	MOISTURE WITHIN	% OF OF	PTIMUM	OF FILL UPON MOISTI OBSER TEST DA	PLACEMENTHE CONTR URE TO ACH VER IS NOT NTA ARE NO	NT, AS WELL AS ACTOR TO A HIEVE SPECIFII PRESENT, AND	THE TESTS PPLY THE N ED COMP O AT LOCA	SHOWN ABO ECESSARY C ACTION DURI TONS OTHER	OVE, WE HAVE RELIED OMPACTIVE EFFORT AND ING TIMES WHEN OUR ITHAN THOSE TESTED.
DISTURE	MOISTURE WITHIN		PTIMUM	OF FILL UPON MOISTI OBSER TEST DA SPECIF	. PLACEMEN THE CONTR URE TO ACH VER IS NOT NTA ARE NO ICATIONS.	IT, AS WELL A: PACTOR TO AI HEVE SPECIFII PRESENT, AND IT THE SOLE BA	STHE TESTS PPLY THE N ED COMP OAT LOCA SIS FOR C	SHOWN ABO ECESSARY C ACTION DURI TIONS OTHER PINIONS ON	OVE, WE HAVE RELIED COMPACTIVE EFFORT AND ING TIMES WHEN OUR R THAN THOSE TESTED. I WHETHER THE FILL MEETS
DISTURE CKNES PE OF E	MOISTURE WITHIN	% OF OF	PTIMUM INCHES COMPA	OF FILL UPON MOISTI OBSER TEST DA SPECIF	PLACEMENTHE CONTR URE TO ACH VER IS NOT ATA ARE NO ICATIONS.	AT, AS WELL AS PACTOR TO AL PRESENT, AND THE SOLE BA	TRENC	SHOWN ABO ECESSARY C ACTION DURI BONS OTHER PINIONS ON	OVE. WE HAVE RELIED OMPACTIVE EFFORT AND ING TIMES WHEN OUR ITHAN THOSE TESTED. I WHETHER THE FILL MEETS
DISTURE CKNES E OF E	MOISTURE WITHIN OMPACTION EQUIPMENT AND NO. OF UNITS: ADDED BY S OF LIFT RITH MOVING EQUIPMENT AND NO. OF UNITS:	% OF OF	PTIMUM INCHES COMPA	OF FILL UPON MOISTI OBSER TEST DA SPECIF	PLACEMENTHE CONTR URE TO ACH VER IS NOT ATA ARE NO ICATIONS.	AT, AS WELL AS PACTOR TO AL PRESENT, AND THE SOLE BA	TRENC	SHOWN ABO ECESSARY C ACTION DURI BONS OTHER PINIONS ON	OVE. WE HAVE RELIED OMPACTIVE EFFORT AND ING TIMES WHEN OUR ITHAN THOSE TESTED. I WHETHER THE FILL MEETS
E OF CONSTURE CKNESSE OF E	MOISTURE WITHIN	% OF OF	PTIMUM INCHES COMPA	OF FILL UPON MOISTI OBSER TEST DA SPECIF	PLACEMENTHE CONTR URE TO ACH VER IS NOT ATA ARE NO ICATIONS.	AT, AS WELL AS PACTOR TO AL PRESENT, AND THE SOLE BA	TRENC	SHOWN ABO ECESSARY C ACTION DURI BONS OTHER PINIONS ON	OVE. WE HAVE RELIED OMPACTIVE EFFORT AND ING TIMES WHEN OUR ITHAN THOSE TESTED. I WHETHER THE FILL MEETS
E OF CONSTURE CKNESSE OF E	MOISTURE WITHIN	% OF OF	PTIMUM INCHES COMPA	OF FILL UPON MOISTI OBSER TEST DA SPECIF	PLACEMENTHE CONTR URE TO ACH VER IS NOT ATA ARE NO ICATIONS.	AT, AS WELL AS PACTOR TO AL PRESENT, AND THE SOLE BA	TRENC	SHOWN ABO ECESSARY C ACTION DURI BONS OTHER PINIONS ON	OVE. WE HAVE RELIED OMPACTIVE EFFORT AND ING TIMES WHEN OUR ITHAN THOSE TESTED. I WHETHER THE FILL MEETS
DISTURE CKNES E OF E	MOISTURE WITHIN	% OF OF	PTIMUM INCHES COMPA	OF FILL UPON MOISTI OBSER TEST DA SPECIF	PLACEMENTHE CONTR URE TO ACH VER IS NOT ATA ARE NO ICATIONS.	AT, AS WELL AS PACTOR TO AL PRESENT, AND THE SOLE BA	TRENC	SHOWN ABO ECESSARY C ACTION DURI BONS OTHER PINIONS ON	OVE. WE HAVE RELIED OMPACTIVE EFFORT AND ING TIMES WHEN OUR ITHAN THOSE TESTED. I WHETHER THE FILL MEETS
E OF C CKNES CKNES E OF E FAIL IN OUI	MOISTURE WITHIN OMPACTION EQUIPMENT AND NO. OF UNITS: ADDED BY S OF LIFT WITH MOVING EQUIPMENT AND NO. OF UNITS: STREPORT DURING THIS SITE VIOLENTED. THE CONTRACTOR IN URE OF THE HYDRO—HAMMER.	SIT NO NFORMED	COMPA US NO	OF FILL UPON MOISTI OBSER TEST DA SPECIF CT I ON COMPA	PLACEMENTHE CONTR URE TO ACH VER IS NOT NATA ARE NO ICATIONS. OF GAS CTION	TEST NO.(S)	TRENCE	SHOWN ABOUT THE PRINCE OF THE	OVE. WE HAVE RELIED COMPACTIVE EFFORT AND ING TIMES WHEN OUR ITHAN THOSE TESTED. I WHETHER THE FILL MEETS FILL WAS BEIN TO MECHANIC
E OF CONSTURE CONTROL OF E	MOISTURE WITHIN OMPACTION EQUIPMENT AND NO. OF UNITS: ADDED BY SOF LIFT NITH MOVING EQUIPMENT AND NO. OF UNITS: SREPORT DURING THIS SITE VI ORMED. THE CONTRACTOR IN URE OF THE HYDRO-HAMMER.	SIT NO IFORMED ONS AS INDICA	COMPA US NO ATED BY O	OF FILL UPON MOISTI OBSER TEST DA SPECIF CTION COMPA	PLACEMENTHE CONTR URE TO ACH VER IS NOT ATA ARE NO ICATIONS. OF GAS CTION TIONS AND OBSERVATI	AS WELL AS ACTOR TO AL HIEVE SPECIFIE PRESENT, AND THE SOLE BASE WOULD	TRENC BE DU	SHOWN ABOUT THE PRINCE OF THE TOUR OF THE TOUR OF THE TOUR OF THE TOUR OF THE TOUR OF THE TOUR OF THE TOUR OF THE TOUR OF THE TOUR OF THE TOUR OF THE TOUR OF THE TOUR OF THE TOUR OF THE TOUR OF THE TOUR OF THE TOUR OF T	OVE. WE HAVE RELIED OMPACTIVE EFFORT AND ING TIMES WHEN OUR ITHAN THOSE TESTED. I WHETHER THE FILL MEETS FILL WAS BEIN TO MECHANIC



CLIENT:

DF:RS

PEPSI-COLA COMPANY OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216 ATTN:MR. DON PATTON

DATE:	09/18/85	JOB. NO.	12167		
REPORT N	D5_		SHEET_1_ OF_	_1	
SUBJECT	PEPSI-CO	LA PLAN	IT	•	
	3801 BR	IGHTON	BOULEVARD		
	GAS I THE	TRENCH	BACKETH		

		T	Ι	LABO	RATORY	<u> </u>	FIELD		
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
11	75' W. FROM S.W. COR. OF								CURVE #3
	PARKING LOT	1.3	NUC	122	11.3	98	11.8	80	JOB #11870
12	285'W. FROM S.W. COR. OF			**					COAL
	PARKING LOT	1.3	NUC	85	15.0	75	14.1	88	CINDERS
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*	BELOW GRADE								
**	ESTIMATED BY A ONE-POINT F	косто	k						

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*	BELOW GRADE									
**	ESTIMATED BY A ONE-POI	NT PROCTO	<u>k</u>	L					[
TYPE OF C	ATIONS: 95 % OF MAXIMUM	ASTM D- % OF O	1557	OF FIL UPON MOIST OBSER TEST D	PLACEMENTHE CONTRA THE CONTRA URE TO ACHI IVER IS NOT P	T, AS WELL A ACTOR TO A IEVE SPECIFII RESENT, AND	S THE TESTS S PPLY THE NEC ED COMPAC O AT LOCATIO	HOWN AB CESSARY C CTION DUF ONS OTHE	ILT OF OUR OBSERVATION BOVE. WE HAVE RELIED COMPACTIVE EFFORT AND RING TIMES WHEN OUR R THAN THOSE TESTED. N WHETHER THE FILL MEETS	
TYPE OF E	ARTH MOVING EQUIPMENT AND NO. OF UNITS:									
TREN	CH BACKFILL WEST OF THE	SOUTH WE	ST CO	RNER DI	THE	PARKING	G LOT.			
IN OUI	R OPINION, FILL COMPACTION MEETS SPECIFIC R OPINION, FILL COMPACTION DOES NOT MEET SHOULD BE REWORKED F OBSERVATION: [] FULL TIME; PERIODIC	T SPECIFICATIONS	AS INDICA	ATED BY OUR	OBSERVATIO	ONS AND TE	ST NO.(S)		11,12	1
		•		CTL/THOM	PSON, INC.					
DELM	AR FISCHER									

APPROVED BY

RONALD M. MC OMBER P.E.



CUENT:

PEPSI-COLA COMPANY OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 9-30-85	JOB. NO	12167		
REPORT NO.	6	SHEET1 OF	1	
SUBJECT				

PEPSI-COLA PLANT 3801 BRIGHTON BOULEVARD UTILITY TRENCH BACKFILL

EST IO.		1		LABOR	ATORY		FIELD		1
j	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	9'N, 5'W FROM S.E.								CURVE #2
-	CORNER	1.7	NUC	126.5	10.0	122	12.5	96	JOB #11870
	24'N, 7'W FROM S.E.								
<u> </u>	CORNER	1.7	NUC	126.5	10.0	121	13.5	96	11 11
	10'N, 35'E FROM S.E.								
	CORNER	2.0	NUC	126.5	10.0	125	11.5	99	11
	30'N, 60'E FROM S.E.								
16	CORNER	2.5	NUC	126.5	10.0	126	12.3	100	11 11
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-		1						İ	
<u> </u>								1	
		1							
*	BELOW GRADE	1							
(1)	OMPACTION EQUIPMENT AND NO. OF UNITS: BACKHOE MOUNTED TAMPING PL ADDED BYNATURAL			MOISTI OBSER TEST DA	JRE TO ACHI VER IS NOT P	EVE SPECIFIE RESENT, AND	ED COMPAC O AT LOCATIO	ONS OTHE	COMPACTIVE EFFORT AI RING TIMES WHEN OUR R THAN THOSE TESTED. N WHETHER THE FILL ME
ICKNESS (OF LIFT12		INCHES						
PE OF EAR	RTH MOVING EQUIPMENT AND NO. OF UNITS:								
(1)	BACKHOE - FRONT LOADER								
	REPORT DURING THESE TWO S UIT TRENCH IN THE SOUTH EA								

CTL/THOMPSON, INC.

DEEMAR FISCHER

**ELD REPRESENTATIVE*

APPROVED BY

RONALD M. MC OMBER, P.E.

FIELD REPRESENTATIVE

F:PV



CLIENT: PEPSI-COLA COMPANY OF DENVER

3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 10-1-85 JOB. NO.	12167
REPORT NO. 7	SHEET 1 OF 1
SUBJECT	

PEPSI-COLA PLANT 3801 BRIGHTON BOULEVARD UTILITY TRENCH BACKFILL

				LABOR	ATORY	[FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	STORM SEWER MAIN ADJ. TO THE WEST SIDE OF RAIL SLAB								
17	25'S FROM NORTH	0.0	NUC	126.5	10.0	122	10.9	96	CURVE #2 JOB #11870
18	110'S FROM NORTH END	0.0	NUC	126.5	10.0	119	10.5	94	11 10
	ELECTRICAL CONDUIT TRENCH								
19	50'S FROM N.E. CORNER OF RAIL SLAB	0.0	NUC	126.5	10.0	120	10.9	95	11
20	100°S FROM N.E. CORNER OF RAIL SLAB	0.0	NUC	126.5	10.0	124	11.8	98	11 11
	. :								
*	RELOW GRADE								

SPECIFICATIONS: 95 % OF MAXIMUM ASTM D 1557 MOISTURE WITHIN 2 % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (1) BACKHOE MOUNTED TAMPING PLATE (2) WHACKER TAMPERS MOISTURE ADDED BY NATURAL THICKNESS OF LIFT 12 INCHES TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: (1) FRONT LOADER	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEET: SPECIFICATIONS.
PROGRESS REPORTDURING THIS SITE VISIT THE CONTSTORM_SEWER_AND_ELECTRICAL_TRENCH_IN_THEBUILDING. THE CONTRACTOR_WAS_ADVISED_TONO_RETEST_WILL_BE_NECESSARY.	RAIL HEAD AREA ADJACENT TO THE FRUCTOSE RECOMPACT THE AREA OF FAILING TEST #18.
- T	
MIN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR	- ·
☐ IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICAT	ED BY OUR OBSERVATIONS AND TEST NO.(S)
AND SHOULD BE REWORKED	
SCOPE OF OBSERVATION: [] FULL TIME; X PERIODIC, ON CALL BASIS; X CONTI	RACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED
	CTL/THOMPSON, INC.
DELMAR FISCHER	

APPROVED BY

RONALD M. MC OMBER, P.E.



CONSTRUCTION.

RONALD M. MC OMBER, P.E.

CLIENT:

PEPSI-COLA COMPANY OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 10-2-	-85 JOB. NO	121	167
REPORT NO	8	SHEET 1.	OF
SUBJECT			

PEPSI-COLA PLANT 3801 BRIGHTON BLVD. UTILITY TRENCH BACKFILL

TEST				LABOR	ATORY		FIELD		
NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	STORM SEWER THE SE CORNER								CURVE #2
21	OF FRUCTOSE BUILDING	3.5	NUC	126.5	10.0	121	9.6	96	JOB #11870
٠	FIRST SERVICE LINE FROM							[
22	THE N. END OF RAIL PAD	0.5	NUC	126.5	_10.0	120	10.9	95	11 11
	SECOND SERVICE LINE FROM						į		
23	THE N. END OF RAIL PAD.	0.5	NUC	126.5	10.0	123	9.6	97	17 11
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			<u> </u>				 		
								† <u>-</u>	
									1
*	BELOW GRADE						<u> </u>		
	MOISTURE WITHIN	% OF O	PHMUM		-		PPLY THE NE		OVE. WE HAVE RELIED
(2) MOISTURE	E ADDED BY			MOIST OBSER TEST DA	URE TO ACH VER IS NOT F	PRESENT, AN	DATLOCATI	IONS OTHER	HING TIMES WHEN OUR R THAN THOSE TESTED.
(2) MOISTURE HICKNES WPE OF E	WHACKER TAMPERS E ADDED BYNATURAL SOF LIFT10-12			MOIST OBSER TEST DA	URE TO ACH VER IS NOT F ATA ARE NOT	PRESENT, AN	DATLOCATI	IONS OTHER	
(2) MOISTURE HICKNES YPE OF E	WHACKER TAMPERS E ADDED BYNATURAL S OF LIFT10-12 ARTH MOVING EQUIPMENT AND NO. OF UNITS: FRONT END LOADER -		INCHES	Moisti Obser Test Da Specif	URE TO ACH VER IS NOT F ATA ARE NOT ICATIONS.	PRESENT, ANI	D AT LOCATE ASIS FOR OF	ONS OTHER	HNG TIMES WHEN OUR R THAN THOSE TESTED. I WHETHER THE FILL MEE
(2) MOISTURE HICKNES YPE OF E	WHACKER TAMPERS E ADDED BYNATURAL SOF LIFT10-12 ARTH MOVING EQUIPMENT AND NO. OF UNITS:		INCHES	Moisti Obser Test Da Specif	URE TO ACH VER IS NOT F ATA ARE NOT ICATIONS.	PRESENT, ANI	D AT LOCATE ASIS FOR OF	ONS OTHER	HNG TIMES WHEN OUR R THAN THOSE TESTED. I WHETHER THE FILL MEE
(2) NOISTURE NE OF E	WHACKER TAMPERS E ADDED BYNATURAL S OF LIFT10-12 ARTH MOVING EQUIPMENT AND NO. OF UNITS: FRONT END LOADER -		INCHES	Moisti Obser Test Da Specif	URE TO ACH VER IS NOT F ATA ARE NOT ICATIONS.	PRESENT, ANI	D AT LOCATE ASIS FOR OF	ONS OTHER	HNG TIMES WHEN OUR R THAN THOSE TESTED. I WHETHER THE FILL MEE
(2) NOISTURE NE OF E	WHACKER TAMPERS E ADDED BYNATURAL IS OF LIFT10-12 ARTH MOVING EQUIPMENT AND NO. OF UNITS: FRONT END LOADER IS REPORTTHE_CONTRACTOR	CONTI	INCHES	MOISTI OBSER TEST DA SPECIF BACKF-IL	URE TO ACH VER IS NOT F NTA ARE NOT ICATIONS.	PRESENT, AND THE SOLE BUTTHE STEEL	DAT LOCATI	ONS OTHER	RENCH
(2) NOISTURE NE OF E	WHACKER TAMPERS E ADDED BYNATURAL SOF LIFT10-12 ARTH MOVING EQUIPMENT AND NO. OF UNITS: FRONTEND _LOADER SREPORTTHE_CONTRACTOR	CONTI	INCHES	MOISTI OBSER TEST DA SPECIF BACKF-IL	URE TO ACH VER IS NOT F NTA ARE NOT ICATIONS.	PRESENT, AND THE SOLE BUTTHE STU	DAT LOCATI	ONS OTHER	RENCH
(2) HOISTURE HICKNES PE OF E (1) ROGRES	WHACKER TAMPERS E ADDED BYNATURAL SOF LIFT10-12 ARTH MOVING EQUIPMENT AND NO. OF UNITS: FRONTTHE_CONTRACTOR	CONTI	INCHES	MOISTI OBSER TEST DA SPECIF BACKF-IL	URE TO ACH VER IS NOT F NTA ARE NOT ICATIONS.	PRESENT, AND THE SOLE BUTTHE STU	DAT LOCATI ASIS FOR OF	ONS OTHER	RENCH
(2) MOISTURI HICKNES PE OF E (1) ROGRES	WHACKER TAMPERS E ADDED BYNATURAL SOF LIFT10-12 ARTH MOVING EQUIPMENT AND NO. OF UNITS: FRONTEND _LOADER SREPORTTHE_CONTRACTOR	CONTI	INCHES	MOISTI OBSER TEST DA SPECIF BACKF-IL	URE TO ACH VER IS NOT F NTA ARE NOT ICATIONS.	PRESENT, AND THE SOLE BUTTHE STU	DAT LOCATI ASIS FOR OF	ONS OTHER	RENCH
(2) MOISTURI HICKNES PE OF E (1) ROGRES	WHACKER TAMPERS E ADDED BYNATURAL IS OF LIFT10—12 ARTH MOVING EQUIPMENT AND NO. OF UNITS: FRONTTHE_CONTRACTOR	CONTI	INCHES	MOISTI OBSER TEST DA SPECIF	URE TO ACH VER IS NOT F NTA ARE NOT ICATIONS.	PRESENT, ANI	DAT LOCATI	ONS OTHER	RENCH
OISTURE OISTURE OISTURE OF E OF E OF E OF E OF E OF E OF E OF	WHACKER TAMPERS E ADDED BYNATURAL SOF LIFT10-12 ARTH MOVING EQUIPMENT AND NO. OF UNITS: FRONTTHE_CONTRACTOR	CONT-IN	INCHES NUES-E	MOISTI OBSER TEST DA SPECIF BACKF-IL	URE TO ACH VER IS NOT F TA ARE NOT ICATIONS.	THE ST	DAT LOCATI	ONS OTHER THE	RENCH.

ICOPE OF OBSERVATION: [1] FULL TIME; X) PERIODIC, ON CALL BASIS; XI CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED ... RONZREID-BURTON

CTL/THOMPSON, INC.

APPROVED BY

IELD REPRESENTATIVE

DELMAR FISCHER



CUENT: PEPSI-COLA COMPANY OF DENVER
3801 BRIGHTON BOULEVARD

DENVER, COLORADO 80216

ATTN; MR. DON PATTON

DATE: 10-3-	-85 JOB. NO	121	67_	-	
REPORT NO	9	SHEET1_	OF	1	
SUBJECT					

PEPSI-COLA PLANT 3801 BRIGHTON BOULEVARD UTILITY TRENCH BACKFILL

	LOCATION	DEPTH FEET *	TEST TYPE	LABORATORY		FIELD			
TEST NO.				MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	S.E. CORNER OF FRUCTOSE								CURVE #2
24	BUILDING	1.3	NUC	126.5	10.0	123	9.9	97	JOB #11870
	S.E. CORNER OF FRUCTOSE						ł		
25	BUILDING	0.0	NUC	126.5	10.0	120	8.8	95	11 11
		_							·
								1	
		-{					1		<u></u>
							 		
		-						1	
								-	
		-	}				ł		
		1							
		1	l]			<u> </u>		/
* _	BELOW GRADE								
(2) IOISTURE	MOISTURE WITHIN + 2 COMPACTION EQUIPMENT AND NO. OF UNITS: WHACKER TAMPERS ADDED BY NATURAL S OF LIFT 10-12 ARTH MOVING EQUIPMENT AND NO. OF UNITS: TRONT LOADER		INCHES	UPON MOIST OBSER TEST DA	THE CONTRA URE TO ACH VER IS NOT F	ACTOR TO A IEVE SPECIFI PRESENT, ANI	PPLY THE N ED COMPA D AT LOCAT	ECESSARY C ACTION DUR TONS OTHER	OVE, WE HAVE RELIED COMPACTIVE EFFORT A ING TIMES WHEN OUR THAN THOSE TESTED. I WHETHER THE FILL ME

CTL/THOMPSON, INC.

DF:PV

DELMAR FISCHER

APPROVED BY



:LIENT:

PEPSI-COLA COMPANY OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 10-24-85 JOB. NO.	12167
REPORT NO. 10	SHEET 1 OF 1
SUBJECT	
PEPSI-COLA PLANT	•
3801 BRIGHTON BL	.VD.

STORM SEWER TRENCH BACKFILL

			l	LABOF	RATORY		FIELD		
TEST NO.	LOCATION	- DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
						· · · · · · · · · · · · · · · · · · ·			CURVE #3
_26	STA. 9+88 45 LEFT	9.0	NUC	122	11.3	105	10.0	86	JOB #11870
27	STA. 9+88 50 LEFT	8.0	NUC	122	11.3	120	8.9	98	11 11
		-					-		•
					,				
		1							
*	BELOW GRADE								
YPE OF C	MOISTURE WITHIN	% OF O	PTIMUM	OF FILE UPON MOIST OBSER	L PLACEMEN THE CONTR URE TO ACH EVER IS NOT F	IT, AS WELL A ACTOR TO A IEVE SPECIFII PRESENT, AND	S THE TESTS S PPLY THE NE ED COMPAC D AT LOCATIO	SHOWN AB CESSARY C CTION DUR ONS OTHER	LT OF OUR OBSERVATION OVE. WE HAVE RELIED COMPACTIVE EFFORT AND RIMES WHEN OUR R THAN THOSE TESTED. WHETHER THE FILL MEETS
10ISTUR	E ADDED BYNATURAL				ICATIONS.				
YPE OF E	EARTH MOVING EQUIPMENT AND NO. OF UNITS:								
ROGRES	(1) FRONT_LOADERSREPORTDURING_THIS_SLITE_VIS	SIT_THE	ECO1/17						
TRE	NCH_AT_STATION_9+88_ON_THE								
									and the second s
T IN OIL	JR OPINION, FILL COMPACTION MEETS SPECIFICATION	NS AS INDIC	ATED RY O	IR OBSERVA	ONA SMOIT	IEST NO (S)		27	
	JR OPINION FILL COMPACTION DOES NOT MEET SPEC								

CTL/THOMPSON, INC.

RONALD M. MC OMBER, P.E.

APPROVED BY

IELD REPRESENTATIVE

AND SHOULD BE REWORKED



CLIENT:

PEPSI-COLA COMPANY OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 10-25-85	JOB. NO	12167							
REPORT NO	11	_ SHEET1 OF	1						
SUBJECT									
PEPSI-COLA PLANT									
3801 BRIGH	ITON BLVD	•							

STORM SEWER TRENCH BACKFILL

TEST				LABORATORY			FIELD					
NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	so	OIL TYPE		
								1	CURY	/E #3		
20	DETECT OF #26	1	NUC	122	11.3	113	7.4	93		#11870		
28	RETEST OF #26	 	NOC	122	11.5	113	7.4	1 33	300	#11070		
29	STA. 9+88. 70'LEFT	8.0	NUC	122	11.3	115	9.0	94	11	11		
		1										
								ļ				
							ļ					
	i.		•									
	BELOW GRADE											
	MOISTURE WITHIN			OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS								
MOISTURE	ADDED BY				ICATIONS.		2.0.0					
	S OF UFT											
	ARTH MOVING EQUIPMENT AND NO. OF UNITS:											
	FRONT_LOADER											
10.	SREPORTTHE_CONTRACTOR_RECOM THECONTRACTOR_WAS_ADVISE CONTRACTOR_INDICATED_A_LARG	D_TO_/	ADD_MC	ISTURE	TO_TI	Æ SOIU	_S, RE	WORK /	AND R	ECOMPACT		
												
	R OPINION, FILL COMPACTION MEETS SPECIFICATION R OPINION, FILL COMPACTION DOES NOT MEET SPEC								, 29			

DELMAR FISCHER

APPROVED BY

CTL/THOMPSON, INC.

RONALD M. MC OMBER, P.E.



LABORATORY

CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE., DENVER, CO 80204 (303) 825-0777

CLIENT: PE

PEPSI-COLA COMPANY OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

ATE: 10-28-85	JOB. NO	12167	
EPORT NO.	12	SHEET_1 OF_	l
UBJECT			

PEPSI-COLA PLANT 3801 BRIGHTON BLVD. STORM SEWER TRENCH BACKFILL

FIELD

i i		1) ·	UNDUK	NORT	L	FIELD			
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL	TYPE
									CURVE	#3
30	RETEST OF #28	1	NUC	122	11.3	118	11.3	97	JOB #	
31	RETEST OF #29		NUC	119*	12.5	115	10.6	97	SAND,	SILT
				·						
		-								
			1					1 1		
			· · · ·							
	-	1								
*	ESTIMATED BY A DNE-POINT	1	l			l	ļ			
(1) OISTURE	MOISTURE WITHIN <u>+</u> 2 COMPACTION EQUIPMENT AND NO. OF UNITS: VIBRATORY SHEEPSFOOT ROLLE ADDED BY (1) WATER TRUCK S OF LIFT 12 ARTH MOVING EQUIPMENT AND NO. OF UNITS:	R		MOIST OBSER TEST DA	URE TO ACH VER IS NOT F	IEVE SPECIFI PRESENT, AND	ED COMPAG O AT LOCATIO	CTION DUR ONS OTHER	OMPACTIVE ING TIMES W THAN THOSI I WHETHER TH	HEN OUR TESTED.
TO OF THE	ASTH WONING ECONOMENT WAD NOTOLOGUE?:									
	FRONT LOADER									
_(_1_)_	S REPORTTHE_CONTRACTOR_RE	COMPAC	CTED_T		ENCH BA					ESTS.
_(_1_)_	S REPORTTHE_CONTRACTOR_RE	COMPAC	CTED_T							ESTS.

COPE OF OBSERVATION: [] FULL TIME; XI PERIODIC, ON CALL BASIS; [XCONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED

CTL/THOMPSON, INC.

RONALD M. MC DMBER,

APPROVED BY

IELD REPRESENTATIVE

AND SHOULD BE REWORKED

DELMAR FISCHER



CLIENT:

PEPSI-COLA COMPANY OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 10-29-85	JOB. NO	_1216	7		
REPORT NO.	13	SHEET	1 of_	1	
SUBJECT					
PEPSI-COLA	PLANT				

3801 BRIGHTON BLVD. STORM SEWER TRENCH BACKFILL

				LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
					7				CURVE #3
32	STATION 9+88, 75'LEFT	3.0	NUC	122.0	11.3	119	9.1	98	JOB #11870
								1	CURVE #2
33	STATION 9+88, 95'LEFT	6.0	NUC	126.5	10.0	121	9.8	96	JOB #11870
_			·.			į			
*	BELOW GRADE								

SPECIFICATIONS: 95 % OF MAXIMUM ASTM D 1557 MOISTURE WITHIN ± 2 % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (1) VIBRATORY SHEEPSFOOT ROLLER	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS
MOISTURE ADDED BY NATURAL THICKNESS OF LIFT 12–16 INCHES MPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: (1) FRONT END LOADER	SPECIFICATIONS.
	ACKFILL THE STORM SEWER TRENCH.

CTL/THOMPSON, INC.

DELMAR FISCHER

AND SHOULD BE REWORKED

APPROVED BY

SCOPE OF OBSERVATION: [] FULL TIME; XT PERIODIC, ON CALL BASIS; [X] CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED

RONALD M. MC OMBER, P.E.



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE., DENVER, CO 80204 (303) 825-0777

CLIENT:

PEPSI-COLA COMPANY OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 10-30-85	_ JOB. NO	12167		
REPORT NO.	14	SHEET OF	2	
SUBJECT				

PEPSI-COLA PLANT 3801 BRIGHTON BLVD. STORM SEWER TRENCH BACKFILL

		T		LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
									CURVE #3
34	40'E FROM MH #1	9.0	NUC	122	11.3	117	9.4	96	JOB #11870
35_	140'E FROM MH #1	9.0	NUC	122	11.3	116	10.1	95	• • • •
36	35°E FROM MH #1	7.0	NIIC	**119	12.5	113	10.9	95	SAND, SILTY
	35 C TROM MT #1	1	1100		12.0	-110	10.5		CURVE #3
37	145 E FROM MH #1	6.5	NUC	122	11.3	118	9.9	97	JOB #11870
38	125'E FROM MH #1	5.0	NUC	122	11.3	119	11.6	98	
		-						0.0	CURVE #2
_39	80 E FROM MH #1	3.0	NUC	126.5	10.0	121	11.6	96	UOB #11870
40	175'E FROM MH #1	7.5	NUC	126.5	10.0	120	10.3	95	11 11
		1	1100			,,,		123	CURVE #3
41	170'E FROM MH #1	5.0	NUC	122	11.3	116	9.5	95	JOB #11870
* PECIFICA	BELOW GRADE ** ESTIMATIONS: 95 % OF MAXIMUM AS					NTS OPINIO	NS FORMED	AS A RESU	LT OF OUR OBSERVATION
(2) (1)	MOISTURE WITHIN ±2 COMPACTION EQUIPMENT AND NO, OF UNITS: WHACKER TAMPERS VIBRATORY SHEEPSFOOT ROLLE ADDED BY (1) WATER TRUC	ER_	nama kadada magadida ma	UPON MOIST OBSER TEST D	THE CONTR URE TO ACH VER IS NOT F	ACTOR TO AI IEVE SPECIFIE PRESENT, AND	PPLY THE NE ED COMPAC O AT LOCATIO	CESSARY C CTION DUR ONS OTHER	OVE. WE HAVE RELIED COMPACTIVE EFFORT AND ING TIMES WHEN OUR IT THAN THOSE TESTED. I WHETHER THE FILL MEETS
	S OF LIFT 12–16			3 2011	10 110110.				
	ARTH MOVING EQUIPMENT AND NO. OF UNITS:	******** ** ** ************************	ii (Crico						
	FRONT LOADER								
	SREPORT THE CONTRACTORS CONT TH AND SOUTH SIDES OF THE F							RENCH	ON THE
1211	DE ALTOLOGICO MENORIO		1 101707		D DE 3	THE DOC	שחכבי	ATL# 5	TIC COMPLEY
MANI	HOLE #1 IS LOCATED NEAR THE						テレシミレ	MIDLE	ETT COMPLEX.
				e deren marken lauren ben					
IN OUR	R OPINION, FILL COMPACTION MEETS SPECIFICATION	IS AS INDIC	ATED BY O	JR OBSERVA	TIONS AND	TEST NO.(S)		34-41	
	R OPINION FILL COMPACTION DOES NOT MEET SPEC	IFICATIONS	AS INDICA	ATED BY OUR	OBSERVATION	ONS AND TE	(2).ON T8		
	HOULD BE REWORKED								
OPE OF	FOBSERVATION: 🗀 FULLTIME; 💢 PERIODIC. ON	CALL BASIS;	XI CON	TRACTOR'S	OR CLIENT'S	REPRESENT	ATIVE ADVIS	SEDRON	ANKEID-BOKTON

CTL/THOMPSON, INC.

APPROVED BY

DELMAR FISCHER

DEPRESENTATIVE

RONALD M. MC OMBER, PE ..



PEPSI-COLA COMPANY OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 10-30-85	JOB. NO	12167	
REPORT NO	14	SHEET2 OF	2
SUBJECT			

THIS DEPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR ORSERVATION.

PEPSI-COLA PLANT 3801 BRIGHTON BLVD. STORM SEWER TRENCH BACKFILL

<u> </u>				LABOR	ATORY		FIELD			
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF **	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	\$OIL1	TYPE
42	ROOF STORM DRAIN STA. 10+80 55'RIGHT OF CULVERT	11.0	NUC	119	12.5	105	10.2	88	SAND,	SILTY
	CENTER LINE									
43	RETEST OF #42		NUC	119	12.5	113	11.4	95	11	11
44	ROOF STROM DRAIN STA. 10+70 55 RIGHT OF	11.0	NUC	119	12.5	114 .	10.0	96	11	11
	CULVERT CENTER LINE									
*	BELOW GRADE									
**	ESTIMATED BY A ONE-POINT	L	L	L	L	L	L	L	<u> </u>	

MOISTURE WITHIN	OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS SPECIFICATIONS.
XIN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED AND SHOULD BE REWORKED COPE OF OBSERVATION: FULL TIME; XI PERIODIC, ON CALL BASIS; XCONTI	ED BY OUR OBSERVATIONS AND TEST NO.(S)

ASTM D 1557

CTL/THOMPSON, INC.

DELMAR FISCHER
IELD REPRESENTATIVE

95

SPECIFICATIONS:

% OF MAXIMUM

APPROVED BY

RONALD M. MC OMBER, P.E.



CLIENT:

PEPSI-COLA COMPANY OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DELMAR FISCHER

FIELD REPRESENTATIVE

)F:PV

DATE: 10-31-85	. JOB. NO	12167		
REPORT NO.	15	SHEET_1_	OF	1
SUBJECT .				

PEPSI-COLA PLANT 3801 BRIGHTON BLVD. STORM SEWER TRENCH BACKFILL

		·							
			1	LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
									CURVE #2
45	165'E FROM MH #1	2.0	NUC	126.5	10.0	121	9.0	96	JOB #11870
1					•				SAND SL.
46	60'NE FROM EAST INLET	6.0	NUC	120**	10.5	115	6.1	96	SILTY
47	50 NE FROM EAST INLET	4.0	NUC	120**	10.5	114	9.6	95	11
			j						CURVE #3 <
48	45'NE FROM EAST INLET	2.0	NUC	122	11.3	116	8.7	95	JOB #11870
									
		1	i						
<u> </u>	,						<u></u>	<u> </u>	
]					j		
*	BELOW GRADE								
**	ESTIMATED BY A ONE-POINT					<u> </u>	<u></u>	<u> </u>	

SPECIFICATIONS: 95 % OF MAXIMUM ASTM D 1557 MOISTURE WITHIN ±2 % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (1) VIBRATORY SHEEPSFOOT ROLLER	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS
MOISTURE ADDED BY NATURAL	SPECIFICATIONS.
THICKNESS OF LIFT 12 INCHES	
TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:	
(1) FRONT LOADER	
NORTH SIDE OF THE ATHLETIC COMPLEX.	
$oldsymbol{\chi}$ In our opinion, fill compaction meets specifications as indicated by our	OBSERVATIONS AND TEST NO.(S)45-48
☐ IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICAT AND SHOULD BE REWORKED	ED BY OUR OBSERVATIONS AND TEST NO.(S)
SCOPE OF OBSERVATION: [] FULL TIME; X] PERIODIC, ON CALL BASIS; X) CONT	RACTOR'S OR CLIENT'S REPRESENTATIVE ADVISEDRON/REID_BURTON

CTL/THOMPSON, INC.

RONALD M. MC OMBER, P.E.

APPROVED BY



CLIENT:

PEPSI-COLA COMPANY OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

ATE: 11-1-85	JOB. NO	12167
REPORT NO.	16	SHEET 1 OF
SUBJECT		

PEPSI-COLA PLANT 3801 BRIGHTON BLVD. STORM SEWER TRENCH: BACKFILL

				LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	SANITARY SEWER 35'S 20'E								CURVE #3
49	FROM N.W. CORNER OF THE	0.0	NUC	122	11.3	118	10.8	98	JOB #11870
	FRUCTOSE BUILDING								
50	ROOF STORM DRAIN STA. 8+50 25'RIGHT FROM CENTER	1.5	NUC	122	11.3	111	10.8	*** 91	11 11
	LINE OF THE BOX CULVERT								
51	ROOF STORM DRAIN STA. 8+50 35'RIGHT FROM CENTER	1.7	NUC	122	11.3	113	12.7	*** 93	11 11
	LINE OF THE BOX CULVERT					·			
	ROOF STORM DRAIN STA.							***	CURVE #2
52	8+50 10 RIGHT FROM CENTER	0.0	NUC	126.5	10.0	117	9.7	92	JDB #11870
	LINE OF THE BOX CULVERT								
*	BELOW GRADE	L	<u> </u>	<u> </u>		I	L	!	

	ROOF STORM DRAIN STA.	·						***	CURVE #2
52	8+50 10 RIGHT FROM CENTER	0.0	NUC	126.5	10.0	117	9.7	92	JOB #11870
- 1	LINE OF THE BOX CULVERT								
			L						
*	BELOW GRADE			•					
PECIFICA	TIONS: 95 % OF MAXIMUM AS	TM D 1	1557	THIS RE	PORT PRESE	NTS OPINION	NS FORMED	AS A RESU	LT OF OUR OBSERVATION
	MOISTURE WITHIN	% OF OI	PTIMUM	OF FILL	PLACEMEN	T, AS WELL AS	THE TESTS S	HOWN AB	OVE. WE HAVE RELIED
YPE OF C	OMPACTION EQUIPMENT AND NO. OF UNITS:								COMPACTIVE EFFORT AND
<u>(1)</u>	VIBRATORY SHEEPSFOOT ROLLE	R							RING TIMES WHEN OUR
									NWHETHER THE FILL MEETS
<i>N</i> OISTURE	ADDED BY NATURAL			SPECIF	ICATIONS.				
HICKNESS	OF LIFT 12-16		INCHES						
YPE OF EA	ARTH MOVING EQUIPMENT AND NO. OF UNITS:								
(1)	FRONT END LOADER								
ROGRESS	REPORT THE CONTRACTOR CONTIL					and the second s			
	90% OF MAXIMUM ASTM D 1557			ما المراجع الم	n anacandrindestridents decay dir		and desired the signal is also in professionary and the signal is also in professionary and the signal is also in the signal in the signal is also in the signal in the signal is also in the signal in the signal is also in the signal in the signal is also in the signal in the signal in the signal is also in the signal in th		
-	OPINION, FILL COMPACTION MEETS SPECIFICATIONS								
	OPINION, FILL COMPACTION DOES NOT MEET SPECI HOULD BE REWORKED	FICATIONS	AS INDICA	ATED BY OUR	OBSERVATIO	ONS AND TE	ST NO.(S)		
COPE OF	OBSERVATION: [] FULL TIME; X PERIODIC, ON C	ALL BASIS;	Х сои	TRACTOR'S	OR CLIENTS	REPRESENTA	ATIVE ADVIS	ED _RON	VREID BURTON
				CTL/THOM	PSON, INC.				
	DELMAD ETSCHED								

DF:PV

HELD REPRESENTATIVE

APPROVED BY

RONALD M. MC OMBER, P.E.



CLIENT:

PEPSI-COLA COMPANY OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DELMAR FISCHER

ELD REPRESENTATIVE

F:PV

DATE:11=1=85	JOB. NO	12167		
REPORT NO.	_16	_ SHEET_ 2 _ OF	2	
SUBJECT				

PEPSI-COLA PLANT 3801 BRIGHTON BLVD. STORM SEWER TRENCH BACKFILL

				LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	STA. 9+88 15'LEFT FROM TH	Ē							
53	C.L. OF THE BOX CULVERT	2.5	NUC	119**	12.5	114	13.1	96	SAND, SILTY
-]							CURVE #3
54	4'E OF MH #1	7.5	NUC	122	11.3	117	11.5	96	JOB #11870
		1					·		CURVE #2
55	6'E OF MH #1	4.5	NUC	126.5	10.0	120	9.8	95	JOB #11870
56	10'S OF CENTER INLET	6.0	NUC	126.5	10.0	121	10.0	96	11 . 11
57	15'N OF CENTER INLET	3.5	NUC	126.5	10.0	120	12.5	95	11
				·					
*	BELOW GRADE								
**	ESTIMATED BY A ONE-POINT	1	<u> </u>					1	

PECIFICATIONS: 95 % OF MAXIMUM ASTM D 1 MOISTURE WITHIN 2 % OF OPTIM YPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (1) VIBRATORY SHEEPSFOOT ROLLER (1) DOUBLE DRUM VIBRATORY ROLLER MOISTURE ADDED BY NATURAL HICKNESS OF LIFT 12 INC YPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:	OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE, WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS SPECIFICATIONS.
(1) FRONT LOADER ROGRESS REPORT SEE SHEET 1 OF REPORT	NO. 16.
3 IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS AND SHOULD BE REWORKED	D BY OUR OBSERVATIONS AND TEST NO.(S) 53=57 INDICATED BY OUR OBSERVATIONS AND TEST NO.(S) CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISEDRON/REID_BURTON

CTL/THOMPSON, INC.

RONALD M. MC OMBER, P.E.

APPROVED BY



CLIENT: PEPSI-COLA COMPANY OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 11-12-85	JOB. NO 1	2167	<u> </u>
REPORT NO	17	SHEET1 OF	1
SUBJECT			

PEPSI-COLA PLANT 3801 BRIGHTON BLVD. STORM SEWER TRENCH BACKFILL

				LABOR	RATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
58	50 N OF N.W. CORNER OF	0.8	NUC	122	. 11.3	112	14.3	92	CURVE #3 JDB #11870
	100°N OF N.W. CORNER OF	0.8	NUC	122	11.3	· 90	10.8	74	11 11
60	100'W OF CENTER LINE OF BRIGHTON BLVD.	0.8	NUC	122	11.3	.110	10.2	90	11 11
_61	200'W DF CENTER LINE DF	0.8	NUC	122	11.3	112	11.2	92	* 1
-							<u>. </u>		
	·								
*	BELOW GRADE								

PECIFICATIONS:95 % OF MAXIMUMASTM_D1557 MOISTURE WITHIN % OF OPTIMUM PE OF COMPACTION EQUIPMENT AND NO. OF UNITS:	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS
OISTURE ADDED BY NATURAL	SPECIFICATIONS.
IICKNESS OF LIFTINCHES	
PE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:	
-(1)-BACKHOE	
ROGRESS REPORT ACME CONSTRUCTION WAS BACKFILLING. THE CONTRACTOR WAS ADVISED	TO RECOMPACT THE TRENCH BACKFILL.
IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATE AND SHOULD BE REWORKED OPE OF OBSERVATION: [1] FULL TIME: \$\vec{v}\$] PERIODIC, ON CALL BASIS: \$\vec{v}\$] CONTR	

CTL/THOMPSON, INC.

RONALD M. MC OMBER, P.E.

APPROVED BY

.D REPRESENTATIVE

JAMES N. CARETTO



CUENT:
PEPSI COLA COMPANY OF DENVER
3801 BRIGHTON BOULEVARD
DENVER, COLORADO 80216
ATTN: MR. DON PATTON

DATE	12-02-85
SUBJECT	PEPSI COLA PLANT
SUBJECT	3801 BRIGHTON BOULEVARD
	SANITARY SEWER TRENCH BACKFILL

				LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
									4
				-					
							L		
									and it is a company destruction of particle and the destruction of the second

iPECIFICATIONS:	% OF MAXIMUM	9	THIS REPORT PRESENTS O
MOISTURE V	VITHIN	% OF OPTIMUM	OF FILL PLACEMENT, AS W
YPE OF COMPACTION EQUIPM	ENIT AND NO OF LINITS		UPON THE CONTRACTOR
THE OF COMPACTION EQUIPM	EINT AND INC. OF UNITS.	•	MOISTURE TO ACHIEVE SE
THE STREET OF THE LAND STREET WAS AS A CONTROL OF			OBSERVER IS NOT PRESEN
gradient species and a second species of the			TEST DATA ARE NOT THE SO
NOISTURE ADDED BY	4 0	r r r v	SPECIFICATIONS.
HICKNESS OF LIFT		INCHES	
YPE OF EARTH MOVING EQUIPM			

THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE, WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED.

ROGRESS REPORT AS REQUESTED BY RON CARPENTER WE VISITED THE JOB SITE TO INSPECT THE SANITARY SEWER TRENCH EXTENDING WEST FROM THE SOUTH WEST CORNER OF THE FRUCTOSE BUILDING. WE OBSERVED SNOW IN THE BOTTOM OF TRENCH WITH APPROXIMATELY 6 INCHES OF FROST PENETRATION IN THE EXISTING BACKFILL. WE RECOMMENDED BELL PLUMBING REMOVE FROZEN BACKFILL BEFORE CONTINUING TO PLACE FILL MATERIAL. WE FURTHER RECOMMENDED THE TRENCH BE PROTECTED FROM FROST WITH BLANKETS IN THE EVENINGS.

- I IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(S)
- IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(S)

 AND SHOULD BE REWORKED

COPE OF OBSERVATION: : FULL TIME; X. PERIODIC, ON CALL BASIS; . X CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED RON CARPENTER

CTL THOMPSON, INC.



CLIENT:

PEPSI COLA COMPANY OF DENVER . 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80215 ATTN: MR. DON PATTON

JIM CARETTO

JC:RS

DATE:	12-03-85 JOB. NO.	12167	
REPORT NO	19 PEPSI COLA MANU	SHEET OF THE SHEET	1 CILITY
SOBJECT	3801 BRIGHTON WATER MAIN TREN		

				LABOR	RATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	IEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
62	25' WEST OF WATER MAIN METER	0.0	NUC	122	11.3	114	10.5	93	CURVE #3 JOB #11870
63	6' NORTH OF WATER MAIN METER	0.0	NUC	122	11.3	116	13.6	95	
62A	RETEST OF #62		NUC	122	11.3	124	10.0	100	
	managa arang ang ang ang ang ang ang ang ang ang								
*	BELOW GRADE								

MOISTURE WITHIN ±2 % OF OPTIMUM YPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: 1) VIBRATORY SHEEPSFOOT ROLLER 1) WHACKER TAMPER MOISTURE ADDED BY NATURAL HICKNESS OF LIFT 8-10 INCHES YPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS SPECIFICATIONS.
1)FRONT END LOADER ROGRESS REPORT AT THE TIME OF OUR SITE VISIT FILL AROUND THE WATER MAIN METER PROTECTION AREA OF TEST #62 PRIOR TO RETEST.	ACME CONSTRUCTION COMPLETED PLACING N BOX. THE CONTRACTOR RECOMPACTED THE
	and the second s
and the control of th	
AND CONTRACT OF THE CONTRACT O	and the second s
(IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATE	OBSERVATIONS AND TEST NO.(S) 63.62A

COPE OF OBSERVATION: [1] FULL TIME; X : PERIODIC, ON CALL BASIS; [X] CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED RON CARPENTER

CTL/THOMPSON, INC.

APPROVED BY RONALD M. MC OMBER P.E.

DELMAR FISCHER



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE, DENVER, CO 80204 (303) 825-0777

 L_{i+1}

CLIENT:
PEPSI COLA COMPANY OF DENVER
3801 BRIGHTON BOULEVARD
DENVER, COLORADO 80216
ATTN: MR. DON PATTON

DATE:	12-12-85 JOB. NO.	12167
REPORT NO.	20	SHEFT 1 OF 1
SUBJECT	PEPSI COLA MANUF	FACTURING FACILITY
	3801 BRIGHTON BO	DULEVARD
	SANITARY SEWER	TRENCH BACKFILL

Γ		1		LABOR	RATORY	<u> </u>	FIELD		
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
64	65' SOUTH OF MH. #7								CURVE #2
		5.0	NUC	126.5	10.0	110	9.7	87	JOB #11870
65	63' SOUTH OF MH. #7			ł					
<u> </u>		5.0	NUC	126.5	10.0	94	11.2	74	11
66	120' SOUTH OF MH. #7			}					
		5.0	NUC	126.5	10.0	105	11.5	83	11
}]							
		<u> </u>]						
			}	1	1			1	
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		-							
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	·	1		•					
*									
	BELOW GRADE	<u> </u>	<u> </u>	L	L	L		İ	<u> </u>

SPECIFICATIONS: 95 % OF MAXIMUM ASTM D-1557	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE, WE HAVE RELIED
MOISTURE WITHIN	UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND
1)VIBRATORY SHEEPSFOOT ROLLER	MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR
	OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS
MOISTURE ADDED BY NATURAL	SPECIFICATIONS.
THICKNESS OF LIFTINCHES	
YPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: 1) FRONT END LOADER	
TEMPERATURES WERE TAKEN IN THE TRENCH BACK VARIED FROM 24°F TO 28°F. THE DEPTH OF FROM	NITARY SEWER TRENCH. DURING THIS VISIT SOIL FILL AND THE STOCKPILED MATERIAL TEMPERATURES
APPROXIMATELY 12 INCHES.	
J IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR	OBSERVATIONS AND TEST NO.(S)
IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATE AND SHOULD BE REWORKED	
COPE OF OBSERVATION: 📋 FULL TIME; 💢 PERIODIC, ON CALL BASIS; 💆 CONTR	ACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED DARREL (REID BURTON)
	CTL/THOMPSON, INC.

RONALD M. MC OMBER P.E.

AND SHOULD BE REWORKED

LD REPRESENTATIVE

₩:PV

DELMAR FISCHER



DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE 12-16-85	JOB.NO. 12167
REPORT NO	21 SHEET 1 OF 1
SUBJECT	

PEPSI COLA MANUFACTURING FACILITY 3801 BRIGHTON BOULEVARD SANITARY SEWER TRENCH BACKFILL

FIELD

	i		ŧ	LABOR			FIELD		
EST ¥O.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
4A	RETEST OF #64		NUC	126.5	10.0	116	11.2	92	CURVE #2
5A	RETEST OF #65	·	NUC	126.5	10.0	112	12.3	89	1 1 1 1 1 1 1
6A	RETEST OF #66		NUC	126.5	10.0	108	13.3	85	1. 1.
1									
CIFICA	NIONS: 95 % OF MAXIMUM AST								
OF CI 1) STURE	MIONS: 95 % OF MAXIMUM AS MOISTURE WITHIN ± 2 OMPACTION EQUIPMENT AND NO. OF UNITS: VIBRATORY SHEEPSFOOT ROLLEF ADDED BY NATURAL OF LIFT WITH MOVING EQUIPMENT AND NO. OF UNITS:	% OF O	PTIMUM	OF FILL UPON MOISTI OBSER TEST DA	, PLACEMEN THE CONTR, URE TO ACH VER IS NOT F	IT, AS WELL AS ACTOR TO AI IEVE SPECIFII PRESENT, AND	S THE TESTS S PPLY THE NE ED COMPAC O AT LOCATIO	SHOWN AB CESSARY C CTION DUR ONS OTHER	LT OF OUR OBSERVATION OVE. WE HAVE RELIED COMPACTIVE EFFORT AN ING TIMES WHEN OUR R THAN THOSE TESTED. I WHETHER THE FILL MEE
OF CO (1) ISTURE CKNESS	MOISTURE WITHIN ± 2 OMPACTION EQUIPMENT AND NO. OF UNITS: VIBRATORY SHEEPSFOOT ROLLEF ADDED BY NATURAL OF LIFT	% OF O	PTIMUM	OF FILL UPON MOISTI OBSER TEST DA	, PLACEMEN THE CONTR. URE TO ACH VER IS NOT F NTA ARE NOT	IT, AS WELL AS ACTOR TO AI IEVE SPECIFII PRESENT, AND	S THE TESTS S PPLY THE NE ED COMPAC O AT LOCATIO	SHOWN AB CESSARY C CTION DUR ONS OTHER	OVE. WE HAVE RELIED COMPACTIVE EFFORT AN ING TIMES WHEN OUR RTHAN THOSE TESTED.

CTL/THOMPSON, INC.

RONALD M. MC OMBER, P.E.

APPROVED BY

LABORATORY



CLIENT:

PEPSI-COLA COMPANY OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DELMAR FISCHER

LED REPRESENTATIVE

DF:PV

DATE: 12-17-85	JOB. NO	121	57	
REPORT NO.	22	SHEET1.	OF	_1
SUBJECT				

PEPSI-COLA MANUFACTURING FACILITY 3801 BRIGHTON BOULEVARD SANITARY SEWER TRENCH BACKFILL

THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR DISSERVATION COFFECTION ON THE RECOMPACTION COUNTY OF THE CONTRACTOR IN A MOSTURE WITHIN ADD NO. OF UNITS COFFECTION OF THE CONTRACTOR TO APPRY THE NECESSARY COMPACTION COUNTY OF THE PROCESS OF STARTING THE EQUIPMENT. AND INDICATED HE SAS FOR OPINIONS ON WHETHER THE FILL ME SPECIFICATIONS. INCHES SEPORT DESERVATION OF THE SANITARY SEWER THIS AFTERNOON. RON. CARPENTER. REQUESTED WE RETURN TOMORROW 12–18–85.					LABOR	RATORY		FIELD		
MOISTURE WITHIN OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE, WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT A MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL ME SPECIFICATIONS. CKNESS OF LIFT INCHES E OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: DOGRESS REPORT AT THE TIME OF THIS VISIT NO WORK WAS IN PROGRESS. THE CONTRACTOR W. IN THE PROCESS OF STARTING THE EQUIPMENT AND INDICATED HE WOULD BEGIN EXCAVATION. FOR THE EAST—WEST PORTION OF THE SANITARY SEWER THIS AFTERNOON. RON CARPENTER		LOCATION			DENSITY		DENSITY		PACTION	SOIL TYPE
MOISTURE WITHIN OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE, WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT A MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. INCHES OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: OGRESS REPORT AT THE TIME OF THIS VISIT NO WORK WAS IN PROGRESS. THE CONTRACTOR W. IN THE PROCESS OF STARTING THE EQUIPMENT AND INDICATED HE WOULD BEGIN EXCAVATION. FOR THE EAST—WEST PORTION OF THE SANITARY SEWER THIS AFTERNOON. RON CARPENTER.										
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MOISTURE WITHIN OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE, WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AT MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL ME SPECIFICATIONS. CKNESS OF LIFT INCHES OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: DIGRESS REPORT AT THE TIME OF THIS VISIT NO WORK WAS IN PROGRESS. THE CONTRACTOR WITHIN THE PROCESS OF STARTING THE EQUIPMENT AND INDICATED HE WOULD BEGIN EXCAVATION FOR THE EAST—WEST PORTION OF THE SANITARY SEWER THIS AFTERNOON. RON CARPENTER.										
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E OF EARTH MOVING EQUIPMENT AND NO. OF UNITS DIGRESS REPORT AT THE TIME OF THIS VISIT NO WORK WAS IN PROGRESS. THE CONTRACTOR WAS IN THE PROCESS OF STARTING THE EQUIPMENT AND INDICATED HE WOULD BEGIN EXCAVATION FOR THE EAST-WEST PORTION OF THE SANITARY SEWER THIS AFTERNOON. RON CARPENTER	DISTURE	ADDED BY			TEST DA	ATA ARE NO				
IN THE PROCESS OF STARTING THE EQUIPMENT AND INDICATED HE WOULD BEGIN EXCAVATION FOR THE EAST-WEST PORTION OF THE SANITARY SEWER THIS AFTERNOON. RON CARPENTER				· · · · · · · · · · · · · · · · · · ·						
	IN FOR	THE PROCESS OF STARTING THE THE EAST-WEST PORTION OF	THE S	PMENT ANITAI	AND II	NDICAT	ED_HE_	WOULD	BEGIN	EXCAVATION

CTL/THOMPSON, INC.

RONALD M. MC OMBER, P.E.

APPROVED BY



CLIENT

PEPSI COLA COMPANY OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216 ATTN: MR. DON PATTON

DAIF 12-18-85

JOB NO

12167

REPORT NO

23 _{SHEET} 1 OF 1

PEPSI COLA MANUFACTURING FACILITY SUBJECT

3801 BRIGHTON BOULEVARD

SANITARY & STORM SEWER TRENCH BACKFILL

[LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC	DRY DENSITY PCF	MC **	COM- PACTION %	SOIL TYPE
67	100' S. OF MH. #7	3.7	NUC	128.5	9.5	122	8.9	95	CURVE #1
68	150'S. OF MH. #7	3.7		128.5	9.5	124	9.4	96	1 1
69	120'S. OF MH. #7	3.0	NUC	128.5	9.5	123	9.7	96	1,1
67A	RETEST OF #67		NUC	128.5	9.5	127	10.6	99	11
68A	RETEST OF #68			128.5		129	10.8	100	
69A	RETEST OF #69			128.5		127	10.5	99	t t
70	STORM SEWER ROOF DRAIN STA 4 +00 25'N. OF BUILDING	4.0		128.5		125	8.9	** 97	# ¶
*	BELOW GRADE								

**95% OF MAXIMUM ASTM D-698

SPECIFICATIONS:

<u>+</u>2

98 NOFMAXIMUM ASTM D-698 S OF OPTIMIZATION

MOISTURE WITHIN YPE OF COMPACTION EQUIPMENT AND NO. OF UNITS.

1) VIBRATORY SHEEPSFOOT ROLLER

1) VIBRATORY SMOOTH ROLLER

MOISTURE ADDED BY NATURAL

HICKNESS OF LIFT 12-18

INCHES

YPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS

2) FRONT END LOADERS

THIS REPORT PRESENTS CHIMIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILE PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE, WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS SPECIFICATIONS

PROGRESS REPORT WE VISITED THE SITE TWICE TODAY. DURING THESE VISITS THE CONTRACTOR WAS BACKFILL THE SANITARY SEWER TRENCH BETWEEN MANHOLES 6. AND .7 AND THE STORM SEWER TRENCH AT STATION 4 +00 OF THE BOX CULVERT. THE CONTRACTOR RECOMPACTED THE AREAS OF TEST NUMBERS 67 AND 69 PRIOR TO RETESTS.

1 IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO. (S) 67A-69A & 70

1 IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO. (S) AND SHOULD BE REWORKED

COPE OF OBSERVATION: FULL TIME: X PERIODIC, ON CALL BASIS; XI CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED RON (REID BURTON)

CTL THOMPSON, INC.

DELMAR FISCHER ELD PEPRESENTATIVE DF:RS



CLIENT:

PEPSI COLA COMPANY OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216 ATTN: MR. DON PATTON

12-19-85 12167 IIAG ON BOL 24 SHEET 1 OF REPORT NO PEPSI COLA MANUFACTURING FACILITY SUBJECT 3801 BRIGHTON BOULEVARD STORM & SANITARY SEWER TRENCH BACKFILL

THIS REPORT PRESENTS CANNIGHTS FORMED AS A RESULT OF OUR OBSERVATION.

OF FILL PLACEMENT AS WELL AS THE TESTS SHOWN ABOVE, WE HAVE RELIED. UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND

MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR

TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS

OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED.

				LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
71	80' FROM MH. #7								
		2.5	NUC	128.5	9.5	130	7.9	100+	CURVE #1
72	75 N. FROM MH. #6							***	CURVE #2
		2.0	NUC	126.5	9.5	123	10.4	97	JOB #11870
73	60 N. FROM MH #6							***	
		2.0	NUC	126.5	9.5	123	9.8	97	
74	STA. 4+00 ROOF STORM DRAIN							**	······································
	40'N. OF BUILDING	4.5	NUC	128.5	9.5	123	9.0	96	CURVE #1
**	BELOW GRADE 95% OF MAXIMUM ASTM D-698								

*** 95% OF MAXIMUM ASTM D-1557

PECIFICATIONS:

98

ASTM D-698 OF MAXIMUM

MOISTURE WITHIN

+2

OF OPTIMUM

YPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: 1) VIBRATORY SHEEPSFOOT ROLLER 1) VIBRATORY SMOOTH DRUM ROLLER

10ISTURE ADDED BY

NATURAL

HICKNESS OF LIFT

12-18

INCHES

SPECIFICATIONS

PPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: 1)FRONT END LOADER

DURING OUR SITE VISIT THE CONTRACTOR WAS BACKFILLING THE SANITARY SEWER TRENCH BETWEEN MANHOLE NUMBERS 6 AND 7 AND THE STORM SEWER TRENCH AT STATION 4+00 OF THE BOX CULVERT.

KIN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(S) -71-74. IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.[S]

CTL THOMPSON, INC.

XELMAR FISCHER PREPRISENTATIVE

AND SHOULD BE REWORKED



25

CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE DENVER, CO 80204

CLIENT: PEPSI COLA COMPANY OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216 ATTN: MR. DON PATTON

12-21-85

12167

DAIL REPORT NO

SUBJECT

JOB NO. 1 PEPSI COLA MANUFACTURING FACILITY

3801 BRIGHTON BOULEVARD

SANITARY SEWER TRENCH BACKFILL .

				LABOR	ATORY	FIELD				
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC	DRY DENSITY PCF	MC °	COM- PACTION %	SOIL TYPE	
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	i									
···					L					
			·						New American Control of the Control	

	MOIS	STURE WITHIN	!			· 0	OPTIM
PE OF COME	PACTION E	QUIPMENT AI	ND NO. C	n Gail	S [.]		

OF MARKET

THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION. OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE, WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS **SPECIFICATIONS**

'PE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:

PECIFICATIONS:

10ISTURE ADDED BY

HICKNESS OF LIFT

OGRESS REPORT	DURI	NG OUR	SITE V	ISIT THE	CONTRAC	TORINE	FORMED	US THAT		RENCH B	ACKFILL
NOULD BE I	PERFORMED	DUE TO	NOPERS	SONNEL A'	/AILABLE	THE	CONTRA	CTOR WA	S EXC	VATING	AND
ACING S	TORM SEWER	PIPE	BETWEEN	MANHOLI	NUMBERS	5 5 ANI	0.6.				

INCHES

IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(S) IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO. [S] AND SHOULD BE REWORKED

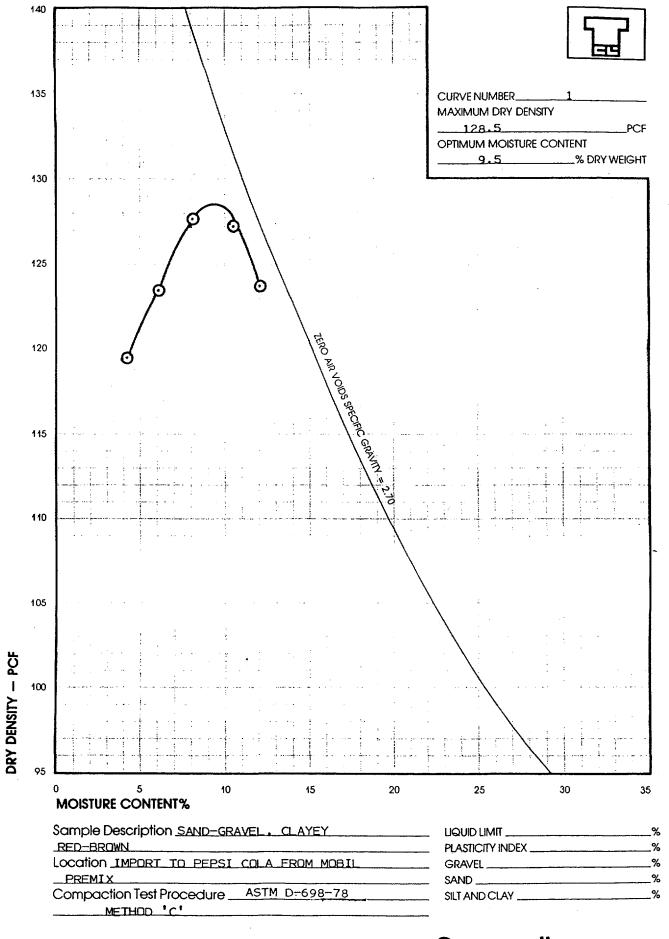
OPE OF OBSERVATION: (1) FULL TIME: XI PERIODIC, ON CALL BASIS; XI CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED FOREMAN (ACME

EXCAVATING)

CTL/THOMPSON, INC.

ELMAR FISCHER D REPRESENTATIVE

RONALD M. MC OMBER P.E.



Compaction Test Results



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE, DENVER, CO 80204 (303) 825-0777

CLIENT: PEPSI-COLA COMPANY OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

DELMAR FISCHER

FIELD REPRESENTATIVE

DF:PV

ATTN: MR. DON PATTON

DATE: 13	2-23-85	JOB. I	NO	121	67		
						1	
SUBJECT							

PEPSI COLA MANUFACTURING FACILITY 3801 BRIGHTON BOULEVARD SANITARY SEWER TRENCH BACKFILL

				LABOR	RATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
								1	CURVE #3
75	80'W FROM MH #5	4.5	NUC	122	11.3	116	10.5	95	JOB #11870
76	120'W FROM MH #5	4.5	NUC	122	11.3	120	10.9	98	in in the
	A COLOR DE CONTRA LOS CONTRA DE CONTRA CONTRA DE CONTRA CO	i							
*	BELOW GRADE								

SPECIFICATIONS: 95 % OF MAXIMUM ASTM D 1557 MOISTURE WITHIN ± 2 % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (1) VIBRATORY SHEEPSFOOT ROLLER	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED.
MOISTURE ADDED BY NATURAL	TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS SPECIFICATIONS.
THICKNESS OF LIFT 12-18 INCHES	
TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: (1) FRONT END LOADER	
PROGRESS REPORT DURING THIS SITE VISIT, THE CO SANITARY SEWER TRENCH BETWEEN MANHOLES #4	AND #5.
Company of the second second of the second s	
and the second of the second o	
and the second s	
and the second of the second o	and the second of the second o
$\dot{ ilde{X}}$ in our opinion, fill compaction meets specifications as indicated by our	OBSERVATIONS AND TEST NO.(S) 75., 76.
IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATE	D BY OUR OBSERVATIONS AND TEST NO.(S)
AND SHOULD BE REWORKED	
AND SHOULD BE REWORKED SCOPE OF OBSERVATION: 1 FULL TIME; X PERIODIC, ON CALL BASIS; X CONTR	ACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED . FOREMAN/ACME

CTL/THOMPSON, INC.

RONALD M. MC OMBER, P.E.

APPROVED BY



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE, DENVER, CO 80204 (303) 825-0777

CLIENT:
PEPSI COLA COMPANY OF DENVER
3801 BRIGHTON BOULEVARD
DENVER, COLORADO 80216
ATTN: MR.: DON PATTON

DATE:	12-	-27-8	.5 JOB. I	VO	121		
REPORT	NO PEPS:	[COL	27 A MANI	SHEET UFACTUR	1 ING	OF FACIL	l _ITY
SORVEC	3801	BRIG	HTON 8	BOULEVAR	RD		
	SANI	TARY	SEWER	TRENCH	BAC	KFILI	

			TEST TYPE	LABOR	ATORY		FIELD			
TEST NO.	LOCATION	DEPTH FEET *		MAX DENSITY PCF	OMC	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE	
77	70' W. OF MH #5	0.0	NUC	122	11.0	116	10.2	95	CURVE #3 JDB #11870	
78	170' W. OF MH #5	0.0	NUC	122	11.0	116	10.3	95		
									10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	
	·									
*	BELOW GRADE									
1) V I MOISTURE THICKNESS TYPE OF E	42	* OF O		OF FILI UPON MOIST OBSER TEST D	L PLACEMEN THE CONTR URE TO ACH WER IS NOT I	IT, AS WELL A ACTOR TO A IIEVE SPECIFI PRESENT, ANI	S THE TESTS: PPLY THE NE ED COMPAG D AT LOCATE	SHOWN AB CESSARY C CTION DUR ONS OTHER	LT OF OUR OBSERVATION OVE. WE HAVE RELIED COMPACTIVE EFFORT AND RING TIMES WHEN OUR R THAN THOSE TESTED. N WHETHER THE FILL MEETS	
	SREPORT DURING THIS VISIT			CTOR W	AS PRE	PARING	TO BA	ACKFIL	L THE SANITAR)	
	Company of the second s					M** . * .				
	R OPINION, FILL COMPACTION MEETS SPECIFICATIONS R OPINION, FILL COMPACTION DOES NOT MEET SPECIF									
	R OPINION, FILL COMPACTION DOES NOT MEET SPECIF HOULD BE REWORKED	ICAHONS	US HADIC	TIED BY OUR	. ODSEKVALI	ONS AND I	(6),UN 16:	LOADE	R OPERATOR	

CTL/THOMPSON, INC.

SCOPE OF OBSERVATION: FULL TIME: X PERIODIC, ON CALL BASIS; X CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED ACME EXCAVATING

AND SHOULD BE REWORKED

DELMAR FISCHER

DF : RS



CLIENT:

TEST NO.

PEPSI COLA COMPANY OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216 ATTN: MR. DON PATTON

LOCATION

DATE:	12-30-85 _{JOB NO.} 12167
REPORT NO	28 SHEET 1 OF 1
SUBJECT	PEPSI COLA MANUFACTURING FACILITY
	3801 BRIGHTON BOULEVARD
	SANITARY SEWER & GAS TRENCH BACKETH

FIELD

DENSITY

COM-

PACTION

79,80

RONALD M. MC OMBER P.E.

81

LOADER OPERATOR (ACME)

SOIL TYPE

MOISTURE WITHIN ±2 % OF OPTIMUM OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AN MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEET SPECIFICATIONS. PE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:	79	1	*	1	PCF		PCF	1	%	1
80 25' E. OF MH #5 7.5 NUC 126.5 10.0 115 12.1 91 ''' 81 GASLINE TRENCH 25' N. & 20' W. FROM N.W. CORNER OF THE FRUCTOSE OF THE FRUCTOSE OF THE FRUCTOSE OF THE FRUCTOSE OF THE PRUCTOSE OF T		5' S. OF MH #5		 				 -		CURVE #2
7.5 NUC 126.5 10.0 115 12.1 91 11 12.1 91 12.1 91 11 12.1 91 11 12.1 91 11 12.1 91 11 12.1 91 11 12.1 91 12.1 91 11 12.1 91 11 12.1 91 11 12.1 91 11 12.1 91 11 12.1 91 11 12.1 91 11 12.1 91 11 12.1 91 11 12.1 91 11 12.1 91 11 12.1 91 12.1 91 11 12.1 91 11 12.1 91 11 12.1 91 11 12.1 91 11 12.1 91 11 12.1 91 11 12.1 91 11 12.1 91 11 12.1 91 11 12.1 91 11 12.1 91			6.0	NUC	126.5	10.0	123	11.4	97	JOB #11870
7.5 NUC 126.5 10.0 115 12.1 91 11 12.1 91 12.1	80	25' E. OF MH #5							**	
81 GASLINE TRENCH 25 N. & 20 W. FROM N.W. CORNER OF THE FRUCTOSE BUILDING ** BELOW GRADE ** 90% OF MAXIMUM ASTM D-1557 IS REQUIRED IN THIS AREA ** 90% OF MAXIMUM ASTM D-1557 IS REQUIRED IN THIS AREA ** PECIFICATIONS: 95 % OF MAXIMUM ASTM D-1557 MOISTURE WITHIN ±2 % OF OPTIMUM PPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: 1) VIBRATORY SHEEPSFOOT ROLLER MOISTURE ADDED BY NATURAL INCHES PPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: 1 INCHES PPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:		Control of the Contro	7.5	NUC	126.5	10.0	115	12.1	91	11
20' W. FROM N.W. CORNER OF THE FRUCTOSE BUILDING 0.0 NUC 130 7.5 112 8.7 86 JOB #11870 * BELOW GRADE ** 90% OF MAXIMUM ASTM D-1557 IS REQUIRED IN THIS AREA PECIFICATIONS: 95 % OF MAXIMUM ASTM D-1557 MOISTURE WITHIN ±2 % OF OPTIMUM UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE FROM ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE FROM A MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. 1) VIBRATORY SHEEPSFOOT ROLLER 20' W. FROM N.W. CORNER O.0 NUC 130 7.5 112 8.7 86 JOB #11870 THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AN MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEET	Ω1	GASLINE TOPNICH 251 N E		1,100	1000			200		
DF THE FRUCTOSE BUILDING O.O NUC 130 7.5 112 8.7 86 JOB #11870 ** BELOW GRADE ** 90% OF MAXIMUM ASTM D-1557 IS REQUIRED IN THIS AREA PECIFICATIONS: 95 % OF MAXIMUM ASTM D-1557 MOISTURE WITHIN ±2 % OF OPTIMUM PEC OF COMPACTION EQUIPMENT AND NO. OF UNITS: 1) VIBRATORY SHIEEPSFOOT ROLLER MOISTURE ADDED BY NATURAL MOISTURE ADDED BY NAT	01						1			
* BELOW GRADE ** PROIFICATIONS:	——				ļ			 	 -	
** BELOW GRADE ** 90% OF MAXIMUM ASTM D-1557 IS REQUIRED IN THIS AREA ** 90% OF MAXIMUM ASTM D-1557 IS REQUIRED IN THIS AREA THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION MOISTURE WITHIN ±2 % OF OPTIMUM UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AN MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT AND AT LOCATIONS OTHER THAN THOSE TESTED. *** 90% OF MAXIMUM ASTM D-1557 IS REQUIRED IN THIS AREA THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AN MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. *** 10 INCHES** *** PECIFICATIONS.** THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AN MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. *** 10 INCHES** *** PECIFICATIONS.** THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO ACHIEVE SPECIFIED COMPACTIVE THE PROTECT OF THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEET OF THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEET OF THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEET OF THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEET OF THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEET OF THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEET OF THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEET OF THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEET OF THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEET OF THE SOLE BASIS FOR OPINIONS OF THE SOLE BASIS FOR OPINIONS OF THE SOLE BASIS FOR OPINIONS OF THE SOLE BASIS FOR OPINIONS		OF THE FRUCTOSE								
** 90% OF MAXIMUM ASTM D-1557 IS REQUIRED IN THIS AREA PECIFICATIONS: 95 % OF MAXIMUM ASTM D-1557 MOISTURE WITHIN ±2 % OF OPTIMUM PEC OF COMPACTION EQUIPMENT AND NO. OF UNITS: 1) VI BRATORY SHEEPSFOOT ROLLER MOISTURE ADDED BY NATURAL MOISTURE ADDED BY NATURAL MOISTURE ADDED BY NATURAL MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. MOISTURE ADDED BY NATURAL M		BUILDING	0.0	NUC	130	7.5	112	8.7	86	JOB #11870
** 90% OF MAXIMUM ASTM D-1557 IS REQUIRED IN THIS AREA PECIFICATIONS: 95 % OF MAXIMUM ASTM D-1557 MOISTURE WITHIN ±2 % OF OPTIMUM PEC OF COMPACTION EQUIPMENT AND NO. OF UNITS: 1) VI BRATORY SHEEPSFOOT ROLLER MOISTURE ADDED BY NATURAL MOISTURE ADDED BY NATURAL MOISTURE ADDED BY NATURAL MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. MOISTURE ADDED BY NATURAL M		and manufacture and a second of the second o								
** 90% OF MAXIMUM ASTM D-1557 IS REQUIRED IN THIS AREA PECIFICATIONS: 95 % OF MAXIMUM ASTM D-1557 MOISTURE WITHIN ±2 % OF OPTIMUM PEC OF COMPACTION EQUIPMENT AND NO. OF UNITS: 1) VI BRATORY SHEEPSFOOT ROLLER MOISTURE ADDED BY NATURAL MOISTURE ADDED BY NATURAL MOISTURE ADDED BY NATURAL MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. MOISTURE ADDED BY NATURAL M										
** 90% OF MAXIMUM ASTM D-1557 IS REQUIRED IN THIS AREA PECIFICATIONS: 95 % OF MAXIMUM ASTM D-1557 MOISTURE WITHIN ±2 % OF OPTIMUM PEC OF COMPACTION EQUIPMENT AND NO. OF UNITS: 1) VI BRATORY SHEEPSFOOT ROLLER MOISTURE ADDED BY NATURAL MOISTURE ADDED BY NATURAL MOISTURE ADDED BY NATURAL MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. MOISTURE ADDED BY NATURAL M				 			 	 	 	
** 90% OF MAXIMUM ASTM D-1557 IS REQUIRED IN THIS AREA PECIFICATIONS: 95 % OF MAXIMUM ASTM D-1557 MOISTURE WITHIN ±2 % OF OPTIMUM PEC OF COMPACTION EQUIPMENT AND NO. OF UNITS: 1) VI BRATORY SHEEPSFOOT ROLLER MOISTURE ADDED BY NATURAL MOISTURE ADDED BY NATURAL MOISTURE ADDED BY NATURAL MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. MOISTURE ADDED BY NATURAL M										
** 90% OF MAXIMUM ASTM D-1557 IS REQUIRED IN THIS AREA PECIFICATIONS: 95 % OF MAXIMUM ASTM D-1557 MOISTURE WITHIN ±2 % OF OPTIMUM PEC OF COMPACTION EQUIPMENT AND NO. OF UNITS: 1) VI BRATORY SHEEPSFOOT ROLLER MOISTURE ADDED BY NATURAL MOISTURE ADDED BY NATURAL MOISTURE ADDED BY NATURAL MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. MOISTURE ADDED BY NATURAL M				<u> </u>			ļ	ļ		
PECIFICATIONS: 95 % OF MAXIMUM ASTM D-1557 MOISTURE WITHIN ±2 % OF OPTIMUM PEOF COMPACTION EQUIPMENT AND NO. OF UNITS: 1) VI BRATORY SHEEPSFOOT ROLLER MOISTURE ADDED BY NATURAL MOISTURE ADDED BY NATURAL MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS ON WHETHER THE FILL MEET SPECIFICATIONS. TIMIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AN MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. MOISTURE ADDED BY NATURAL MOISTURE ADDED BY NATURAL MOISTURE ADDED BY NATURAL MOISTURE FILL MEET SPECIFICATIONS.	*	BELOW GRADE						1		
PECIFICATIONS:	**	90% OF MAXIMUM ASTM D-1557	TS R	FOLITE	ED IN	THIS A	RFA	Į.		
		COMPACTION EQUIPMENT AND NO. OF UNITS:			MOIST OBSER	URE TO ACH VER IS NOT I	IEVE SPECIF PRESENT, AN	ED COMPAC D AT LOCATIO	CTION DUI ONS OTHE	RING TIMES WHEN OUR
Complete State Comple	MOISTURE HICKNES	ADDED BY NATURAL S OF LIFT 18					THE SOLE B	ASIS FOR OP	INIONS O	N WHETHER THE FILL MEET
	MOISTURE HICKNES YPE OF E	ADDED BY NATURAL S OF LIFT 18 ARTH MOVING EQUIPMENT AND NO. OF UNITS:		.INCHES			THE SOLE B	ASIS FOR OP	INIONS O	N WHETHER THE FILL MEET
	MOISTURE HICKNES YPE OF E 1)FR	ADDED BY NATURAL S OF LIFT 18 ARTH MOVING EQUIPMENT AND NO. OF UNITS: CONT LOADER		INCHES	SPECIF	ICATIONS.				
ROGRESS REPORT DURING THIS SITE VISIT THE CONTRACTOR WAS BACKFILLING THE SANITARY	MOISTURE HICKNES YPE OF E 1)FR	ADDED BY NATURAL S OF LIFT 18 ARTH MOVING EQUIPMENT AND NO. OF UNITS: RONT LOADER S REPORT DURING THIS SIT	E_VIS	INCHES	SPECIF E_CONT	ICATIONS.	WAS E	ACKEIL	LING.	THE SANITARY
SEWER TRENCH BETWEEN MAN HOLES 5 AND 6. STEVE WITH REID BURTON REQUESTED A TEST B	MOISTURE HICKNESS YPE OF E 1)FR PROGRES SEWE	ADDED BY NATURAL S OF LIFT 18 ARTH MOVING EQUIPMENT AND NO. OF UNITS: RONT LOADER S REPORT DURING THIS SITER TRENCH BETWEEN MAN HOLES	E_VIS 5_AND	IT TH	SPECIF E_CONT STEVE_	ICATIONS. RACTOR	_WAS_E EID_BU	ACKEIL RION R	LING. EQUES	THE_SANITARY STED_A_TEST_B
	MOISTURE HICKNESS YPE OF E 1)FR PROGRES SEWE	ADDED BY NATURAL S OF LIFT 18 ARTH MOVING EQUIPMENT AND NO. OF UNITS: RONT LOADER S REPORT DURING THIS SITER TRENCH BETWEEN MAN HOLES	E_VIS 5_AND	IT TH	SPECIF E_CONT STEVE_	ICATIONS. RACTOR	_WAS_E EID_BU	ACKEIL RION R	LING. EQUES	THE_SANITARY STED_A_TEST_B
SEWER TRENCH BETWEEN MAN HOLES 5 AND 6. STEVE WITH REID BURTON REQUESTED A TEST B	MOISTURE HICKNES TYPE OF E 1)FR PROGRES SEWE PERF	ADDED BY NATURAL S OF LIFT 18 ARTH MOVING EQUIPMENT AND NO. OF UNITS: CONT LOADER S REPORT DURING THIS SITE IR TRENCH BETWEEN MAN HOLES CORMED ON THE BACKFILL IN THE	E_VIS 5_AND E_GAS	IT THE	SPECIF E_CONT; STEVE_TRENCI	RACTOR WITH_R	_WAS_E EID_BL TED_NC	ACKEIL RION_R	LING EQUES ST_DE	THE SANITARY STED A TEST B THE ERUCTOS
SEWER TRENCH BETWEEN MAN HOLES 5 AND 6. STEVE WITH REID BURTON REQUESTED A TEST B PERFORMED ON THE BACKFILL IN THE GAS LINE TRENCH LOCATED NORTH WEST OF THE ERUCTOS	MOISTURE HICKNES YPE OF E 1) FR PROGRES SEWE PERF	ADDED BY NATURAL S OF LIFT 18 ARTH MOVING EQUIPMENT AND NO. OF UNITS: CONT LOADER S REPORT DURING THIS SITE OR TRENCH BETWEEN MAN HOLES ORMED ON THE BACKFILL IN THE DING. STEVE INDICATED RECO	E_VIS 5_AND E_GAS	IT THE	SPECIF E_CONT; STEVE_TRENCI	RACTOR WITH_R	_WAS_E EID_BL TED_NC	ACKEIL RION_R	LING EQUES ST_DE	THE SANITARY STED A TEST B THE FRUCTOS
SEWER TRENCH BETWEEN MAN HOLES 5 AND 6. STEVE WITH REID BURTON REQUESTED A TEST B PERFORMED ON THE BACKFILL IN THE GAS LINE TRENCH LOCATED NORTH WEST OF THE ERUCTOS BUILDING. STEVE INDICATED RECOMPACTION OF THIS TRENCH BACKFILL WOULD BE DONE THIS	MOISTURE HICKNES YPE OF E 1) FR PROGRES SEWE PERF	ADDED BY NATURAL S OF LIFT 18 ARTH MOVING EQUIPMENT AND NO. OF UNITS: CONT LOADER S REPORT DURING THIS SITE OR TRENCH BETWEEN MAN HOLES ORMED ON THE BACKFILL IN THE DING. STEVE INDICATED RECO	E_VIS 5_AND E_GAS	IT THE	SPECIF E_CONT; STEVE_TRENCI	RACTOR WITH_R	_WAS_E EID_BL TED_NC	ACKEIL RION_R	LING EQUES ST_DE	THE SANITARY STED A TEST B THE FRUCTOS
SEWER TRENCH BETWEEN MAN HOLES 5 AND 6. STEVE WITH REID BURTON REQUESTED A TEST B PERFORMED ON THE BACKFILL IN THE GAS LINE TRENCH LOCATED NORTH WEST OF THE ERUCTOS BUILDING. STEVE INDICATED RECOMPACTION OF THIS TRENCH BACKFILL WOULD BE DONE THIS	MOISTURE HICKNES YPE OF E 1) FR PROGRES SEWE PERF	ADDED BY NATURAL S OF LIFT 18 ARTH MOVING EQUIPMENT AND NO. OF UNITS: CONT LOADER S REPORT DURING THIS SITE OR TRENCH BETWEEN MAN HOLES ORMED ON THE BACKFILL IN THE DING. STEVE INDICATED RECO	E_VIS 5_AND E_GAS	IT THE	SPECIF E_CONT; STEVE_TRENCI	RACTOR WITH_R	_WAS_E EID_BL TED_NC	ACKEIL RION_R	LING EQUES ST_DE	THE SANITARY STED A TEST B THE FRUCTOS

SCOPE OF OBSERVATION: The FULL TIME; X PERIODIC, ON CALL BASIS; X CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED STEVE (REID BURTON)

CTL/THOMPSON, INC.

APPROVED BY

LABORATORY

DENSITY

OMC

DEPTH

[.] IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.[S].

X IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED BY OUR OBSERVATIONS AND TEST NO.(5)

TEST



ACME EXCAVATING

RONALD M. MC OMBER, P.E.

CLIENT:

PEPSI-COLA COMPANY OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

DATE: 1-2-85	JOB. NO	12167	
REPORT NO.	29	_ SHEET1_OF	1
SUBJECT			
PEPSI CO	LA MANUFAC	TURING FACIL	ITY
3801 BRI	GHTON BOUL	.EVARD	

SANITARY SEWER TRENCH BACKFILL

	·			LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
									CURVE #2
82	35'E FROM MH #5	4.0	NUC	126.5	10.0	115	10.3	91	JOB #11870
83	25'W FROM MH #6	1.5	NUC	126.5	10.0	117	10.4	92	11 11
				100 5				95	
84	20'F FROM MH #5	3.0	NUC	126.5	10.0	120	11.0	95	
85	50 W FROM MH #4	4.5	NUC	126.5	10.0	115	10.3	91	7.1
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	Andreas and a supplier of the state of the s	1				İ.			
(1)	MOISTURE WITHIN			MOIST OBSER TEST DA	URE TO ACH VER IS NOT I	IEVE SPECIFI PRESENT, ANI	ED COMPA O AT LOCATI	CTION DUR ONS OTHER	COMPACTIVE EFFORT A RING TIMES WHEN OUF R THAN THOSE TESTED. N WHETHER THE FILL ME
	ARTH MOVING EQUIPMENT AND NO. OF UNITS:								
ADE OE E	ARTH MOVING EQUIPMENT AND NO. OF UNITS: FRONT_LOADER								

COPE OF OBSERVATION: 🗆 FULL TIME; 💢 PERIODIC, ON CALL BASIS; 💢 CONTRACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED LOADER_OPERATOR.

-DELMAR FISCHER -----

CTL/THOMPSON, INC.

APPROVED BY

ELD REPRESENTATIVE



CLIENT:

PEPSI COLA COMPANY OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216 ATTN: MR. DON PATTON

DATE:	01-03-	B6 JOB. NO	121	67
REPORT NO)	30	SHEET 1. OF	1
SUBJECT	PEPSI	COLA MAN	NUFACTURING	FACILITY
	3801	BRIGHTON	BOULEVARD	
	SANIT	ARY SEWER	TRENCH BAC	KFILL

				LABOR	RATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
86	100° W. FROM MH. 4	0.0	NUC	126.5	10.0	106	12.2	84	CURVE #2 JOB #11870
87	40 E. FROM MH. 3	0.0	NUC	126.5			10.7	90	11
*	BELOW GRADE								

		 	 								
									· · · · ·		
*	BELOW GRADE										
PECIFICATIONS: 90 JEMANMENT ASTM D= 1557 MOISTURE WITHIN ±2 JEFFORT PRESENTS CHANGOS FORMED AS A PESULT OF OUR OBSERVATION OF FIRE PLACEMENT AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. OISTURE ADDED BY NATURAL ICKNESS OF LIFT INCHES TO FARTH MOVING EQUIPMENT AND NO. OF UNITS											
OGRESS 3ETWE	ONT LOADER REPORT PRIOR TO THIS VI EN MANHOLE NUMBERS 3 AND 4 25° TO 28° F.		-								
									THE RESIDENCE CONTRACTOR OF THE PARTY OF THE		
						•			THE RESIDENCE OF A SECURITY OF		
							-				
IN OUR	OPINION, FILL COMPACTION MEETS SPECIFICATION: OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATION BETOM TO THE SPECIFICATION BETOM TO THE SPECIFICATION BETOM TO THE SPECIFICATION BETOM TO THE SPECIFICATION BETOM TO THE SPECIFICATION TO THE					• •		7 86			
OPE OF	OBSERVATION: FULL TIME: X PERIODIC, ON C	ALL BASIS;	Х: СОИ	TRACTOR'S	OR CLIENT'S	REPRESENTA			ADER OPERATOR EXCAVATING)		

CTL THOMPSON INC.

ELMAR FISCHER



PEPSI COLA COMPANY OF DENVER
3801 BRIGHTON BOULEVARD
DENVER, COLORADO 80216
ATTN: MR. DON PATTON

DATE:	01-06	-86	OB. NO.		12167	7	
DEPORT NO	,	31		SHEET	1 OF	1	
SUBJECT	PEPSI	COLA	MAN	JFACTUR	ING	FACILI	Τ̈́
	3801	BRIGH	TON	BOULEV	ARD		
	SANIT	ARY S	EWER	TRENCH	BACK	(FILL	

				LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION	SOIL TYPE
86A	RETEST OF #86		NUC	126.5	10.0	114	10.8	90	CURVE #2 JOB #11870
	·								

ECIFICATIONS: 90 OF MAXIMUM AS MOISTURE WITHIN ±2 E OF COMPACTION EQUIPMENT AND NO OF UNITS: .) VI BRATORY SHEEPSFOOT ROLLER DISTURE ADDED BY NATURAL CKNESS OF LIFT.	TM D-1557 OF OPTIMUM	OF FILE PLACEMENT AS WE UPON THE CONTRACTOR MOISTURE TO ACHIEVE SPE OBSERVER IS NOT PRESENT	ELL AS THE TESTS SHOWN A TO APPLY THE NECESSARY ECIFIED COMPACTION D LAND AT LOCATIONS OTH	Y COMPACTIVE EFFORT AND URING TIMES WHEN OUR
E OF EARTH MOVING EQUIPMENT AND NO. OF UNITS.) FRONT LOADER				
XGRESS REPORT PRIOR TO THE ABO ACKFILL BETWEEN MANHOLE NUMBE R COMPACTED ANY ADDITIONAL TRE	RS 3 AND 4.	THE CONTRACTO	R HAS NOT B	ACKFILLED
والمرابع المستقدين المرابع المرابع المرابع المرابع المرابع المرابع المرابع المرابع المرابع المرابع المرابع			TO SERVICE OF THE PROPERTY AND	
and the second of the second o				
N OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS N OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATION SHOULD BE REWORKED				
PPE OF OBSERVATION: FULL TIME; X PERIODIC, ON C	ALL BASIS; "X" CONTR	ACTOR'S OR CLIENT'S REPRE	SENTATIVE ADVISED L	DADER OPERATOR

CTL:THOMPSON, INC.

ELMAR FISCHER
BERNISHMANN
F:RS

RONALD M. MC OMBER P.E.

(ACME EXCAVATING)



CLIENT:
PEPSI COLA COMPANY OF DENVER
3801 BRIGHTON BOULEVARD
DENVER, COLORADO 80216
ATTN: MR. DON PATTON

DELMAR FISCHER/KIRK STEADMAN
FIELD REPRESENTATIVE
DF/KS:RS

DATE:	01-09-86 _{JOB NO.} 12167
REPORT NO	32 SHEET 1 OF 1 PEPSI COLA MANUFACTURING FACILITY
SUBJECT	PEPSI COLA MANUFACTURING FACILITY
	3801 BRIGHTON BOULEVARD
	SANITARY SEWER TRENCH BACKFILL

				LABO	RATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF **	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
88	40° E OF MH. #1								CLAY V.
		3.0	NUC	119	12.5	109	13.9	92	SANDY
88A	RETEST OF #88	1							
		1	NUC	119	12.5	115	12.9	97	1 7
		<u></u>							
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*		<u> </u>		ļ	ļ		ļ	 	
**	BELOW GRADE	<u>.</u>						1	
	ESTIMATED BY A ONE-POINT I	TRUCTU	<u> </u>	l	L	L	<u> </u>	<u> </u>	L
1)WA	COMPACTION EQUIPMENT AND NO. OF UNITS: ALK BEHIND VIBRATORY SHEEPSI E ADDED BY NATURAL S OF LIFT 10-12 ARTH MOVING EQUIPMENT AND NO. OF UNITS: DADER			MOIST OBSER TEST D	URE TO ACH	IEVE SPECIFI PRESENT, AND	ED COMPAG DAT LOCATION	CTION DUR ONS OTHEI	COMPACTIVE EFFORT AND ING TIMES WHEN OUR R THAN THOSE TESTED. N WHETHER THE FILL MEETS
TREN MAXI	SREPORT DURING THIS SITE VISION DELIVER NAMED IN STREET STATE VISION DETERMINE TORY FOR THIS PORTION OF TREET STATE OF TREET S	2, DO D BY A	N PAT	TON WI DARD P	TH PEP	SI COL	A IND	CATED B) WOL	95% OF THE LD BE SATIS-
						····			
) IN 000	D ODINION FILL COMPACTION MESTS SOFOIFIG THOM		ATED BU A	ID OBCCO: "	TIONS THE	TECT NO 101	984	Δ.	
	R OPINION, FILL COMPACTION MEETS SPECIFICATION								
	R OPINION, FILL COMPACTION DOES NOT MEET SPEC	IFICATIONS	AS INDICA	VIED BY OUR	OBSEKVAII	ONS AND TE	[8].ON 16:		
AND S	CHOULD BE REWORKED		~					МАЕ	RK (ACME EXCA
OPE O	FOBSERVATION: THE FULL TIME; THE PERIODIC, ON C	CALL BASIS;	TY CON	IKACTOR'S	OR CLIENTS	KEPRESENT	ATIVE ADVI	SED	(/) CI II

CTL/THOMPSON, INC.

RONALD M. MC OMBER P.E.

APPROVED BY

KIRK STEADMAN

FIELD REPRESENTATIVE



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE., DENVER, CO 80204 (303) 825-0777

CUENT:
PEPSI COLA COMPANY OF DENVER
3801 BRIGHTON BOULEVARD
DENVER, COLORADO 80216
ATTN: MR. DON PATTON

DATE:C)1-10-86 JOB. NO.	12167	
	33	SHEET 1 OF	1
SUBJECT	PEPSI COLA MANU	FACTURING PL	ANT
	3801 BRIGHTON E	BOULEVARD	
	SANITARY SEWER	TRENCH BACKS	=1: :

				LABO	RATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF **	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
89	90' W. DF MH. #2	1.5	NUC	119	12.5	116	10.7	97	CLAY V. SANDY
90	20 E. OF MH. #1								11
91	60° E. OF MH. #1	1.5	NUC	119	12.5	114	11.9	96	
		0.0	NUC	119	12.5	120	11.1	100	11
92	45' W. OF MH. #2	0.0	NUC	119	12.5	115	11.2	97	
**	DELUW GRADE	ROCTO	R.	:					

** ESTIMATED BY A ONE-POINT PROCTOR.	<u></u>	_[<u> </u>		I	
PECIFICATIONS: 95 % OF MAXIMUM ASTM D-698 MOISTURE WITHIN ±2 % OF OPTIMUM PE OF COMPACTION EQUIPMENT AND NO. OF UNITS: L) WALK BEHIND VIBRATORY SHEEPSFOOT ROLLER	THIS REPORT PRES OF FILL PLACEME UPON THE CONT MOISTURE TO AC OBSERVER IS NO TEST DATA ARE NO	NT, AS WELL A RACTOR TO A HIEVE SPECIFI PRESENT, ANI	S THE TESTS S PPLY THE NEC ED COMPAC O AT LOCATIO	HOWN AS CESSARY C CTION DUF ONS OTHE	COMPACTIVE EFFO RING TIMES WHEN R THAN THOSE TES	LIED ORT AND NOUR STED.
IOISTURE ADDED BY NATURAL	SPECIFICATIONS.	I THE SOLE D	SIS FOR OF	141014301	A AAUCHUEK IUCH	CE IVICEIS
HICKNESS OF LIFT 10-12 INCHES						
PE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:						
1)LOADER						
AT THE TIME OF OUR SITE VISITS ON SITE FILL MATERIAL IN THE SANITARY SEWER PERFORMED THROUGHOUT THE DAY.						
IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR						
IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED AND SHOULD BE REWORKED	OBSERVATIONS ANI	D TEST NO.[S] TONS AND TE	_89-92 st no.(s) _	endagenephility fill to co		
IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED AND SHOULD BE REWORKED	OBSERVATIONS ANI	D TEST NO.[S] TONS AND TE	_89-92 st no.(s) _	endagenephility fill to co		
IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED	OBSERVATIONS ANI	D TEST NO.[S] TONS AND TE	_89-92 st no.(s) _	endagenephility fill to co		

CTL/THOMPSON, INC.

RONALD M. MC OMBER P.E.

APPROVED BY



CLIENT:
PEPSI COLA COMPANY OF DENVER
3801 BRIGHTON BOULEVARD
DENVER, COLORADO 80216
ATTN: MR. DON PATTON

DATE:	01-13-86 JOB NO.	12167
REPORT N	NO SHE	EET. 1 OF 1
SUBJECT	PEPSI COLA MANUFACT	TURING FACILITY
	3801 BRIGHTON BOULE	EVARD
	SANITARY SEWER TREN	ICH BACKEILL

			Γ	LABOR	RATORY	F	FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF **	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
93	100' S. OF 1ST MANHOLE N. OF NEW BUILDING	3.5	NUC	119	12.5	115	10.7	97	CLAY V. SANDY
94	80° S. OF 1ST MANHOLE N. OF NEW BUILDING	2.5		119	12.5	114		96	11
-	N. OF NEW BUILDING	2.3	NOC.	119	12.3	114	10.5	90	- The section of the contract
	Auditoria par liggio e con printe e con cigar e debita de despetto, pertende e par e de ser parte des estado e								an practice and another season and a second se
*	BELOW GRADE ESTIMATED BY A ONE-POINT								

SPECIFICATIONS: 95 % OF MAXIMUN. 4STM_D-698 MOISTURE WITHIN +2 % OF OPTIMUM	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED						
TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS:	UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR						
1)WALK BEHIND SHEEPSFOOT ROLLER	OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TES TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILE						
MOISTURE ADDED BY NATURAL	SPECIFICATIONS.						
THICKNESS OF LIFT							
TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:							
1)LOADER							
ABOVE DENSITY TESTS WERE PERFORMED THROUGHO FIELD REPRESENTATIVE ADDITIONAL TESTS WOULD	BE NEEDED TOMORROW MC	ACTOR INFO	ORMED OUR				
en de la companya de la companya de la companya de la companya de la companya de la companya de la companya de La companya de la companya de la companya de la companya de la companya de la companya de la companya de la co							
and the same of the same of the same of the same of the same of the same of the same of the same of the same of							
$\dot{\chi}$ in our opinion, fill compaction meets specifications as indicated by our	OBSERVATIONS AND TEST NO.(S)	93,94					
1 IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATE AND SHOULD BE REWORKED	D BY OUR OBSERVATIONS AND TEST NO.(5)						
SCOPE OF OBSERVATION: \mathbb{R}^{+} FULL TIME; $X_{\mathbb{R}}^{+}$ PERIODIC, ON CALL BASIS; $X_{\mathbb{R}}^{+}$ CUNTR	ACTOR'S OR CLIENT'S REPRESENTATIVE ADVI	SED MARK (AC	ME SEWER)				

CTL/THOMPSON, INC.

KIRK STEADMAN



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE., DENVER, CO 80204 (303) 825-0777

CLIENT:
PEPSI COLA COMPANY OF DENVER
3801 BRIGHTON BOULEVARD
DENVER, COLORADO 80216
ATTN: MR. DON PATTON

DATE:	01-14-86	JOB. NO	1216		
REPORT	NO. PEPSI COLA	35	_ SHEET1	OF1	
SUBJECT	PEPSI COLA	MANUF	ACTURIN	IG FACIL	ITY
00.352.07	3801 BRIGH	ITON BO	ULEVARD)	
	SANITARY S	SEWER T	RENCH E	BACKFILL	

			<u> </u>	LABOR	RATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
95	100' S. OF 1ST MANHOLE N.								CURVE #3
	OF SPORT BUILDING	0.5	NUC	122.0	11.3	111	7.6	91	JOB #11870
96	30' S. OF 1ST MANHOLE N.								
	OF SPORTS BUILDING	3.5	NUC	128.5	9.5	125	6.5	97	CURVE #1
95A	RETEST OF #95								CURVE #3
			NUC	122.0	11.3	118	8.2	97	JOB #11870
97	W. SIDE OF 1ST MANHOLE N.								
	OF SPORTS BUILDING	5.0	NUC	122.0	11.3	116	8.8	95	• •
98	40' S. OF 1ST MANHOLE N.								
	OF SPORTS BUILDING	1,5	NUC	122.0	11.3	115	8.6	94	
99	E. SIDE OF 1ST MANHOLE N.								
	OF SPORTS BUILDING	3.0	NUC	122.0	11.3	117	9.4	96	* *
100	NORTH SIDE OF MANHOLE								
	#2	4.0	NUC	122.0	11.3	115	8.6	94	1 1
*	BELOW GRADE							1	,

SPECIFICATIONS: 95 % OF MAXIMUMASTM D-1557 MOISTURE WITHIN ±3 % OF OPTIMUM IMPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: 1) WALK BEHIND VIBRATORY SHEEPSFOOT ROLLER 1) BACKHOE WITH VIBRATORY PLATE MOISTURE ADDED BY NATURAL	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS SPECIFICATIONS.
THICKNESS OF LIFT 10-12 INCHES	
YPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: 1) BACKHOE	
PROGRESS REPORT AS REQUESTED BY THE CONTRACTOR S DENSITY TESTS IN THE SANITARY SEWER TRENCH ABOVE DENSITY TESTS WERE PERFORMED THROUGHO	NORTH OF THE SPORTS BUILDING, THE DUT THE DAY,
$\vec{\chi}_{\!\!\!\!/}^{\!$	OBSERVATIONS AND TEST NO.(S) _96,95A,97-100
IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATED AND SHOULD BE REWORKED SCOPE OF OBSERVATION: IT FULL TIME: 12 PERIODIC, ON CALL BASIS; 22 CONTRA	•

CTL/THOMPSON, INC.

APPROVEDE

KIRK STEADMAN

:FLD REPRESENTATIVE KS:RS

RONALD M. MC OMBER P.E.



CLIENT:

PEPSI-COLA COMPANY OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

> PEPSI COLA MANUFACTURING FACILITY 3801 BRIGHTON BOULEVARD SANITARY SEWER TRENCH BACKFILL

				LABOR	ATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
101	5'S OF MH #3	1.5	NUC	126.5	10.0	122	7.8	96	CURVE #2 JOB #11870
102	3°N OF MH #3	1.5	NUC	126.5	10.0	122	7.8	96	11 11
103	3'S OF MH #4	1.5	NUC	122	11.3	117	11.4	96	CURVE #3 JOB #11870
104	4 N DE MH #4	1.5	NUC	122	11.3	118	10.8	97	11. 11
									era politikari 1945 ero, akuli kalanya 1957 yan 186 - 1974 (1977 1977 1988 hanya 1997 1997)
*	BELOW GRADE								

MODITURE WITHIN & OF OF HISTORY	ORMED AS A RESULT OF OUR OBSERVATION E TESTS SHOWN ABOVE, WE HAVE RELIED	
TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: UPON THE CONTRACTOR TO APPLY MOISTURE TO ACHIEVE SPECIFIED C	THE NECESSARY COMPACTIVE EFFORT AND COMPACTION DURING TIMES WHEN OUR LOCATIONS OTHER THAN THOSE TESTED.	
	FOR OPINIONS ON WHETHER THE FILL MEETS	
MOISTURE ADDED BY SPECIFICATIONS.		
THICKNESS OF LIFT		
TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:		
(-1)- BACKHOE, (-1)- FRONT END LOADER		
PROGRESS REPORT _AS_REQUESTED_BY_THE CONTRACTOR, A SITE VISIT WAS_MA		
_COMPACTION_TESTS_ON_THE_BACKFILL_AROUND_THE_MANHOLES FOR_THE_ _COMPACTION_AT_THE ABOVE TEST LOCATIONS WAS COMPLETED PRIOR TO	SANITARY SEWER LINE.	
COMPACTION_TESTS_ON_THE BACKFILL AROUND THE MANHOLES FOR THECOMPACTION_AT_THE ABOVE TEST LOCATIONS WAS COMPLETED PRIOR TO	SANITARY SEWER LINE.	
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COMPACTION_TESTS ON THE BACKFILL AROUND THE MANHOLES FOR THECOMPACTION_AT_THE ABOVE TEST LOCATIONS WAS COMPLETED PRIOR TO	SANITARY SEWER LINE. DUR VISIT.	

CTL:THOMPSON, INC.

KIRK D. SKINNER

APPROVED BY

RONALD M. MC OMBER, P.E.



CLIENT:

PEPSI-COLA COMPANY OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216

ATTN: MR. DON PATTON

SUBJECT PERSTURN A MA

PEPSI-COLA MANUFACTURING FACILITY 3801 BRIGHTON BOULEVARD STORM DRAIN INLET BACKFILL

ſ				LABOR	RATORY		FIELD		
TEST NO.	LOCATION	DEPTH FEET *	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
105	3'W OF INLET	6.0	NUC	122	11.3	117	11.0	96	CURVE #3 JOB #11870
106	12°W OF INLET	6.0	NUC	122	11.3	119	10.3	98	11 11
*	BELOW GRADE	·					<u> </u>		

SPECIFICATIONS: 95 % OF MAXIMUM ASTM D 1557 MOISTURE WITHIN ± 3 % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (1) SMALL STEEL DRUM ROLLER	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEET.					
MOISTURE ADDED BY	SPECIFICATIONS.					
THICKNESS OF LIFT 10-20 INCHES						
TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS:						
PROGRESS REPORT AS REQUESTED BY RON, WITH REID VISITED TO PERFORM COMPACTION TESTS ON BACK NORTH EAST OF MANHOLE #4. THE CONTRACTOR THE TENNIS COURT AREA PRIOR TO PLACING FILL	KFILL OF THE STORM DRAIN INLET 30 FEET IS REMOVING LARGE CONCRETE BLOCKS FROM					
and the second of the second o	en en en en en en en en en en en en en e					
and the contraction of the contr	and the second s					
	(x,y) = (x,y) + (x,y					
X IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATE AND SHOULD BE REWORKED	D BY OUR OBSERVATIONS AND TEST NO.(S)					
SCOPE OF OBSERVATION: $\{i\}$ FULL TIME; $X^{\{i\}}$ PERIODIC, ON CALL BASIS; $\{X\}$ CONTR	COOK TOK CULLY THE RESERVANCE NOVISEDROTA RELID DON'TON					

CTL/THOMPSON, INC.



CTL/THOMPSON, INC.

CONSULTING GEOTECHNICAL AND MATERIALS ENGINEERS

1971 WEST 12TH AVE, DENVER, CO 80204 (303) 825-0777

CLIENT:

PEPSI-COLA COMPANY OF DENVER 3801 BRIGHTON BOULEVARD DENVER, COLORADO 80216 ATTN: MR. DON PATTON

DATE 3-19-86	JOB. NO. 12167
REPORT NO 38	SHEET. 1. OF
SUBJECT	

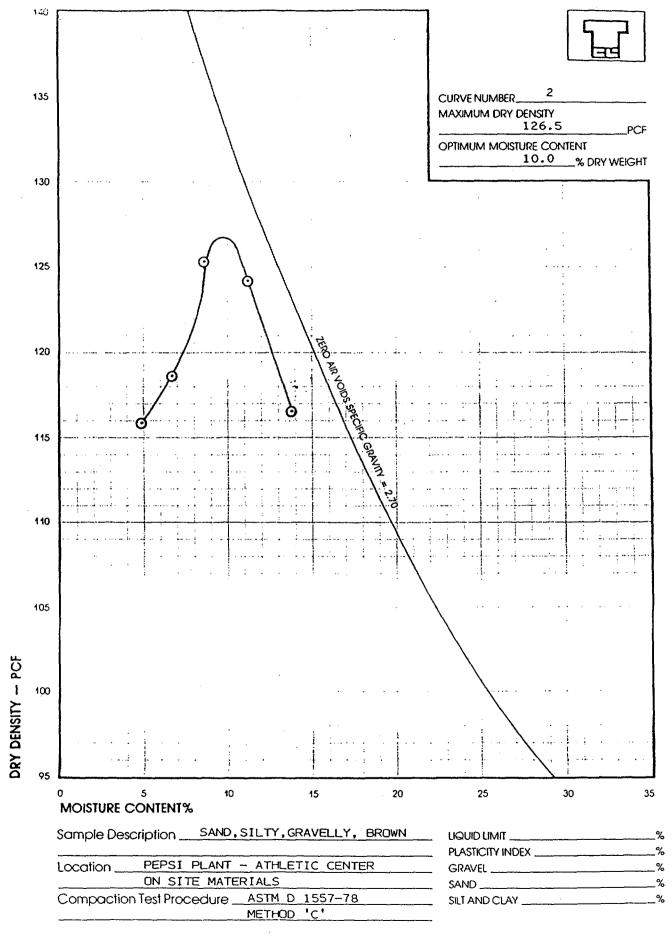
PEPSI SPORTS COMPLEX 3801 BRIGHTON BOULEVARD UTILITY TRENCH BACKFILL

			l .	LABOR	ATORY	1	FIELD		
TEST NO.	LOCATION	DEPTH FEET	TEST TYPE	MAX DENSITY PCF	OMC %	DRY DENSITY PCF	MC %	COM- PACTION %	SOIL TYPE
	TRASH COMPACTOR DRAIN								CURVE #2
107	LINE 40'W OF INLET	2.5	NUC	126.5	10.0	122	6.6	96	JOB #11870
·	TRASH COMPACTOR DRAIN								
108	LINE 10'W OF INLET	0.0	NUC	126.5	10.0	121	6.4	95_	1 1
	TRASH COMPACTOR DRAIN								
109	LINE 70'W OF INLET	0.0	NUC	126.5	10.0	122	6.8	96	• •
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	*BELOW GRADE	<u> </u>					<u> </u>		

SPECIFICATIONS: 95 % OF MAXIMUM ASTM D 1557 MOISTURE WITHIN ± 3 % OF OPTIMUM TYPE OF COMPACTION EQUIPMENT AND NO. OF UNITS: (1) VIBRATORY SLED	THIS REPORT PRESENTS OPINIONS FORMED AS A RESULT OF OUR OBSERVATION OF FILL PLACEMENT, AS WELL AS THE TESTS SHOWN ABOVE. WE HAVE RELIED UPON THE CONTRACTOR TO APPLY THE NECESSARY COMPACTIVE EFFORT AND MOISTURE TO ACHIEVE SPECIFIED COMPACTION DURING TIMES WHEN OUR OBSERVER IS NOT PRESENT, AND AT LOCATIONS OTHER THAN THOSE TESTED. TEST DATA ARE NOT THE SOLE BASIS FOR OPINIONS ON WHETHER THE FILL MEETS
MOISTURE ADDED BY NATURAL	SPECIFICATIONS.
THICKNESS OF LIFT 10-12 INCHES	
TYPE OF EARTH MOVING EQUIPMENT AND NO. OF UNITS: (1) BACKHOE	
1.00.600.60.00.	TH REID BURTON CONSTRUCTION, SITE ON BACKFILL OVER THE TRASH COMPACTOR
DRAIN LINE.	
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And the second s	and the second s
AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	And the second of the second o
X: IN OUR OPINION, FILL COMPACTION MEETS SPECIFICATIONS AS INDICATED BY OUR	OBSERVATIONS AND TEST NO.IS) 107-109
! IN OUR OPINION, FILL COMPACTION DOES NOT MEET SPECIFICATIONS AS INDICATE AND SHOULD BE REWORKED	D BY OUR OBSERVATIONS AND TEST NO.(S)
SCOPE OF OBSERVATION: FULL TIME; X PERIODIC, ON CALL BASIS; X' CONTR	ACTOR'S OR CLIENT'S REPRESENTATIVE ADVISED RON (REID BURTON)

CTL/THOMPSON, INC.

KIRK STEADMAN



Compaction Test Results

TARGET SHEET

EPA REGION VIII SUPERFUND DOCUMENT MANAGEMENT SYSTEM

DOCUMENT NUMBER: 490478

Due to o	DOCUMENT DATE: 10-A04-01 DOCUMENT NOT SCANNED ne of the following categories:
	— PHOTOGRAPHS
	— 3 – DIMENSIONAL
X	— OVERSIZED
	AUDIO/ VISUAL
	— PERMANENTLY BOUND DOCUMENTS
	— POOR LEGIBILITY
	OTHER
	NOT AVAILABLE
	TYPES OF DOCUMENTS NOT TO BE SCANNED (Data Packages, Data Validation, Sampling Data, CBI, Chain of Custody)
f-	MECHANICAL LEGEND - PATED MAY 9,1986 GENERAL NOTES, SCHEDULES, AND TYPICAL SLAB PETAILS - NO DATE RECORDED

SITE NAME: LINCOLN PARK